

## UTAH OIL AND GAS CONSERVATION COMMISSION

REMARKS. WELL LOG ELECTRIC LOGS FIL R WATER SANDS LOCATION INSPECTED SUB. REPORT/abd.

**Commenced Injection 10/93**

DATE FILED **2-18-92**

LAND: FEE & PATENTED STATE LEASE NO PUBLIC LEASE NO INDIAN **14-20-603-372**

DRILLING APPROVED **3-27-92**

SPUDED IN **8 1/2 in**

COMPLETED **9-17-92** **WIW** ~~PUT TO PRODUCING~~

INITIAL PRODUCTION:

GRAVITY API

GOR

PRODUCING ZONES: **5506-5532 (DGOR)**

TOTAL DEPTH: **5772**

WELL ELEVATION: **4731 GR**

DATE ABANDONED:

FIELD: **GREATER ANETH**

UNIT: **MCELMO CREEK**

COUNTY: **SAN JUAN**

WELL NO: **MCELMO CREEK Q-12A** API NO. **43-037-31677**

LOCATION **368' FSL** FT. FROM (N) (S) LINE. **917' FEL** FT. FROM (E) (W) LINE. **SE SE** 1/4 - 1/4 SEC. **32**

TWP	RGE	SEC	OPERATOR	TWP	RGE	SEC	OPERATOR
<b>40S</b>	<b>25E</b>	<b>32</b>	<b>MOBIL OIL CORPORATION</b>				

# Mobil Oil Corporation

P.O. BOX 5444  
DENVER, COLORADO 80217-5444

May 14, 1986

Utah Board of Oil, Gas and Mining  
355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203

Attn: R. J. Firth  
Associate Director

**RECEIVED**  
MAY 16 1986

DIVISION OF  
OIL, GAS & MINING

## SUPERIOR OIL COMPANY MERGER

Dear Mr. Firth:

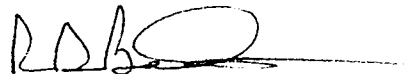
On September 20, 1984, The Superior Oil Company (Superior) became a wholly owned subsidiary of Mobil Corporation. Since January 1, 1985, Mobil Oil Corporation (MOC), another wholly owned subsidiary of Mobil Corporation, has acted as agent for Superior and has operated the Superior-owned properties.

On April 24, 1986, Superior was merged with Mobil Exploration and Producing North America Inc. (MEPNA), which is also a wholly owned subsidiary of Mobil Corporation. MEPNA is the surviving company of the merger.

This letter is to advise you that all properties held in the name of Superior will now be held in the name of MEPNA; and that these properties will continue to be operated by MOC as agent for MEPNA.

Attached is a listing of all wells and a separate listing of injection-disposal wells, Designation of Agent and an organization chart illustrating the relationships of the various companies. If you have any questions or require additional documentation of this merger, please feel free to contact me at the above address or (303) 298-2577.

Very truly yours,



CNE/rd  
CNE8661

R. D. Baker  
Environmental Regulatory Manager

# Mobil Exploration & Producing U.S. Inc.

February 7, 1992

P.O. DRAWER G  
CORTEZ, COLORADO 81321

Mr. John A. Phillips  
Acting District Manager  
Bureau of Land Management  
U. S. Department of the Interior  
1235 La Plata Highway  
Farmington, New Mexico 87401

RE: Surface Use Development Plan  
Proposed Well: Q-12A  
McElmo Creek Unit  
368' FSL, 917' FEL, SESE  
Section 32, T40S, R25E, SLM  
Navajo Indian Reservation  
San Juan County, Utah

Dear Mr. Phillips:

We submit the following surface development plan for the above referenced well pursuant to and in compliance with the Onshore Oil and Gas Order Number 1:

1. The well is approximately 3 miles north of Aneth, Utah 84510. To reach the location, start in the front of the Thriftway Store at Aneth, Utah, and go west 1.7 miles on Utah Highway 262; then turn right (north) onto County Road 405 and go about 2.5 miles on County Road 405; then turn right (east) onto an existing McElmo Creek Unit road and go .4 mile to a junction; and then turn right (south) onto another Unit road and go .3 mile to the location.
2. The existing San Juan County Road 405 will need no upgrading or improvement. Approximately .7 mile of existing unit road may need some grading/maintenance for the drilling of this well. No new access road will need to be constructed for the drilling of this replacement well.

Page 2.

3. Mobil Oil does have a current inventory of all existing wells within a one mile radius of the proposed well. All the wells within the 1 mile radius of this proposed are McElmo Creek Unit wells. Attached is a plat showing existing wells in the area as our information shows it.
4. Since this is a replacement injection well, Mobil Oil proposes to construct extensions of the CO<sub>2</sub> and water injection lines from the existing Q-12 well. These extensions will all be on-location construction impacting no additional surfaces.

All above-ground facilities will be painted a flat, non-reflective Mobil beige color or as is stipulated for this well.

5. Location and type of water supply for drilling will be from the McElmo Creek Unit fresh water make source/supply along the San Juan River. The water source location is at the booster station in the NW 1/4 SW 1/4, Section 17, T41S, R25E. As a second option, Mobil may elect to get water from an existing artesian well on BLM administered land approximately 4 miles west of Montezuma Creek, Utah. The location of that water source is 1050' FNL, 1575 FWL, Sec. 27, T40S, R23E. Permits will obtained prior to drilling. Water will be trucked to the location over existing roads and access road.
6. All construction material necessary to build the drilling pad will be obtained from the location. Approximately 12 inches of the topsoil will stockpile on the northwest and southeast of the location. Large rock/boulders will be put in the drainage west of the location as to slow down runoff. Drainages from the hill to the east will diverted by the stockpiled topsoil to the west and east of the location. Capping of the drilling pad is deemed not necessary at this time. But if capping of the pad becomes necessary, then capping material will be acquired from a local source.
7. Methods of handling waste disposals are as follows:
  - A. A trash basket, a potable wire cage, will be placed in the northeast corner of the reserve mud pits. (See attached Plat) All trash will be removed when needed and disposed of in an approved landfill. No trash shall be burned.
  - B. The reserve mud pits will be located on west side of the location for the drilling, mud, cuttings and fluids. The reserve pit will be lined with a re-enforced liner of no less than 10 mil thickness. The reserve pit will be fenced on three sides away from the pad while drilling and the fourth side will be fenced as soon as

## Page 3

the drilling rig moves out. When drilling operations are complete, the reserve pit will be allowed to dry naturally for not more than 12 months after completion of the well and then be backfilled, leveled and contoured to the original landscape as much as possible. (See Plats)

- C. Chemical toilets, meeting OSHA approved standards, will be provided and maintained during drilling operations.
8. The support facilities consisting of three mobile homes for use by supervisory personnel of Mobil Oil, the drilling contractor, coring, and mud logging will be parked on the east and north edge of location as shown on the attached Plats during drilling operations. No additional or other ancillary facilities are anticipated at this time.
9. A plat of the proposed drill pad and its location relative to topographic features is attached. Diagrams showing cross section of cuts and fills, site organization, and drilling rig orientation are contained in the attached plats. The access to the location will be from the north of the pad.
10. Upon completion of the drilling operations and if the well is deemed dry and/or not usable for injection purposes, then the location, reserve pits and the access road will be cleaned and restored to the original topographical contours as much as possible and reseeded in accordance with the requirements and stipulations of seed mixture of the Bureau of Indian Affairs, Shiprock Agency, Shiprock, New Mexico.
- Immediately on completion of drilling, all trash and debris will be collected and disposed of in an approved landfill.

BLM and BIA-Shiprock Agency offices will be notified before any actual reclamation work is started.

The reclamation seeding will be done during late fall or at a seeding time period approved by the BIA. The seeded area will be dragged over to assure seed cover and roughed up for moisture retention. The following seed mix has been prescribed:

- 1 pound per acre of Sand Dropseed (*Sporobolus cryptandrus*)
- 2 pounds per acre of Indian Ricegrass (*Oryzopsis hymenoides*)
- 2 pounds per acre of Four-wing Saltbrush (*Atriplex canescens*)
- 2 pounds per acre of Western Wheatgrass (*Agropyron smithii*)
- 2 pounds per acre of Galleta (*Hilaria jamesii*)

Page 4

11. The surface land at the location and all of the surface land crossed by the existing unit roads is Navajo Tribal Trust lands and managed cooperatively by the Shiprock Agency of the Bureau of Indian Affairs and the Navajo Tribe.
12. Any additional questions, requests and/or unanticipated developments will be channeled through the appropriate individuals of the BLM, BIA and the Navajo Tribe.
13. As for the contacts with Mobil Oil, the following are company and contract representatives:

Permitting - Shirley Todd, 915-688-2585

Mailing address: P. O. Box 633, Midland, Tx 79702

Construction - John L. Long, 801-651-3264, Ext. 501

Drilling - Elaine Cash, 915-688-1404

Dirt Contractor - not yet determined

Drilling Contractor - not yet determined.

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with operations proposed herein will be performed by Mobil Oil Corporation and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. The statement is subject to the provision of 28 U.S.C. 1001 for the filing of a false statement.

MOBIL OIL CORPORATION

  
C. J. Benally

CJB

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒

DEEPEN ☐

PLUG BACK ☐

b. TYPE OF WELL

OIL  
WELL ☐

GAS  
WELL ☐

OTHER

SINGLE  
ZONE ☐

MULTIPLE  
ZONE ☐

2. NAME OF OPERATOR

Mobil Oil Corporation

3. ADDRESS OF OPERATOR  
% Mobil Exploration & Producing U.S. Inc.  
P.O. Box 633, Midland, TX 79702

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)

At surface

700' FSL

969' FEL

SE 3/4

At proposed prod. zone

Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

3.7 miles S.E.

15. DISTANCE FROM PROPOSED\*  
LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drlg. unit line, if any)

7517

16. NO. OF ACRES IN LEASE

2560

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

40

18. DISTANCE FROM PROPOSED LOCATION\*  
TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

200' N #Q-12

19. PROPOSED DEPTH

5900 DSCR

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

UGL - 4724.96

GGL - 4731

22. APPROX. DATE WORK WILL START\*

April 15

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17 1/2	13 3/8	48#	80	112 cubic ft.
11	9 5/8	36#	1600	651 cubic ft.
8 3/4	7	23#	5800	1150 cubic ft.

See Attached 8 Point Well Control Plan for Additional Drilling Information.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

*Shuley Joad*

TITLE Environmental & Reg. Tech.

DATE 2-12-92

(This space for Federal or State office use)

PERMIT NO.

43-037-31677

APPROVAL DATE

APPROVED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

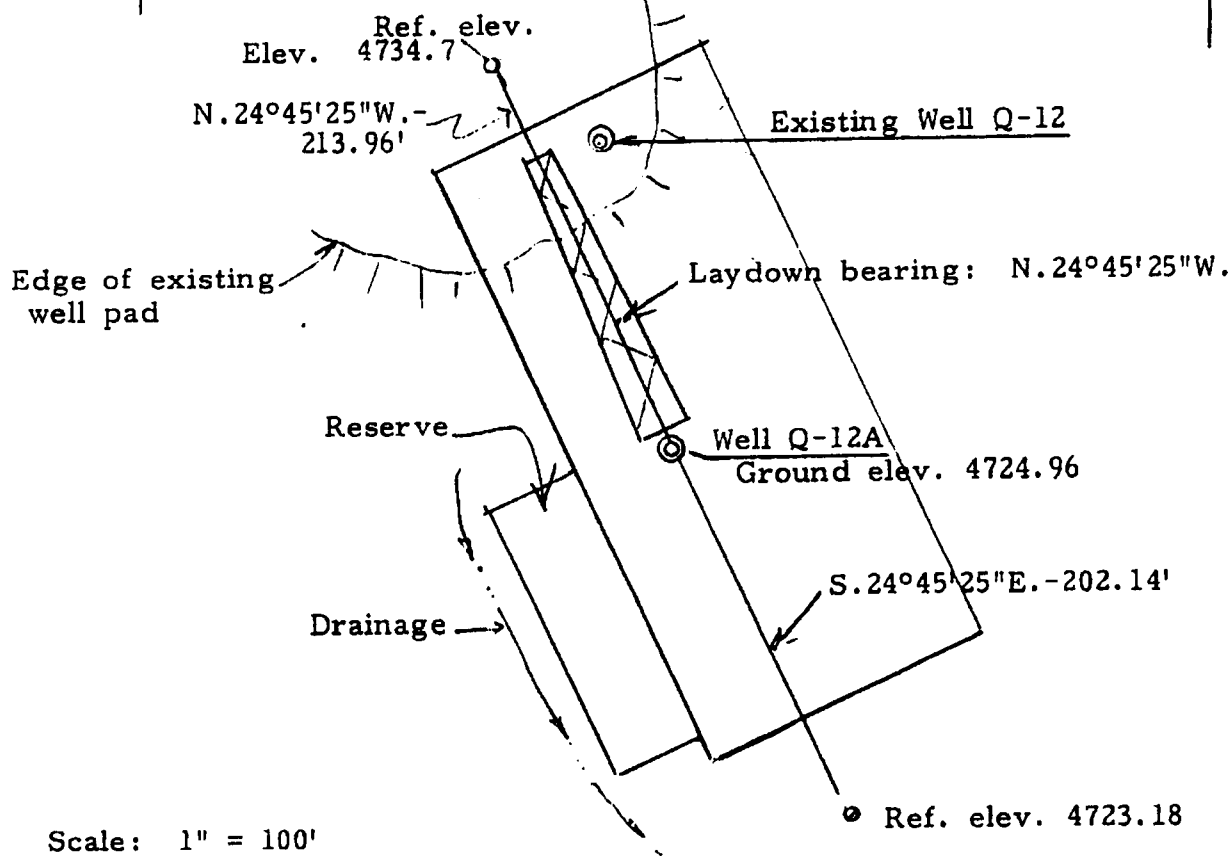
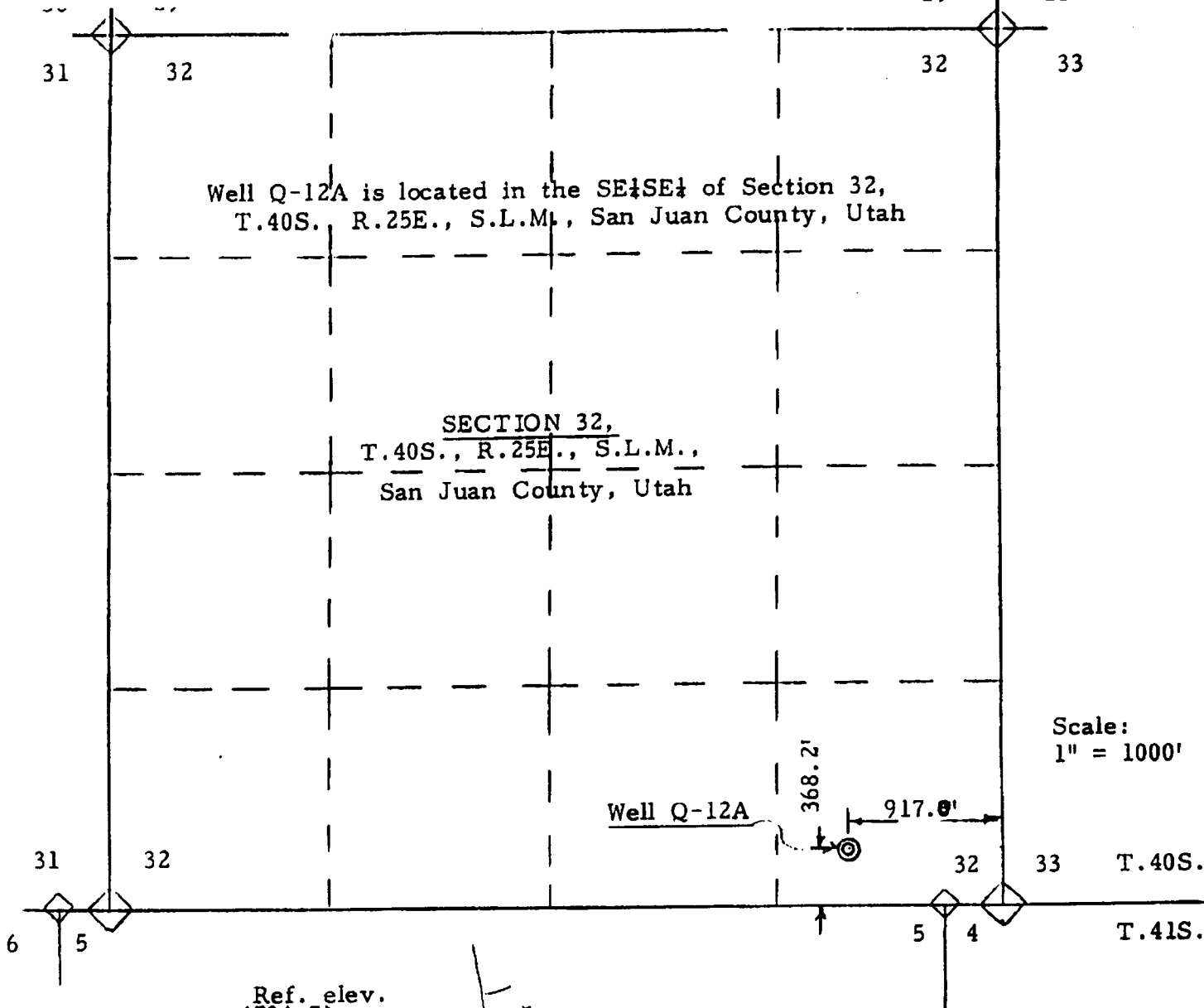
TITLE

DATE: 3-27-92

BY: *M. J. Matthews*

WELL SPACING: 649-2-3

\*See Instructions On Reverse Side



KNOW ALL MEN BY THESE PRESENTS:

THAT I, FREDRIC P. THOMAS  
do hereby certify that I prepared this plat from an  
actual and accurate survey of the land and that the  
same is true and correct to the best of my knowledge  
and belief.

*Fredric P. Thomas*

FREDRIC P. THOMAS  
Reg. L.S. and P.E.  
Colo. Reg. No. 6728

Bearing by  
Solar  
observation

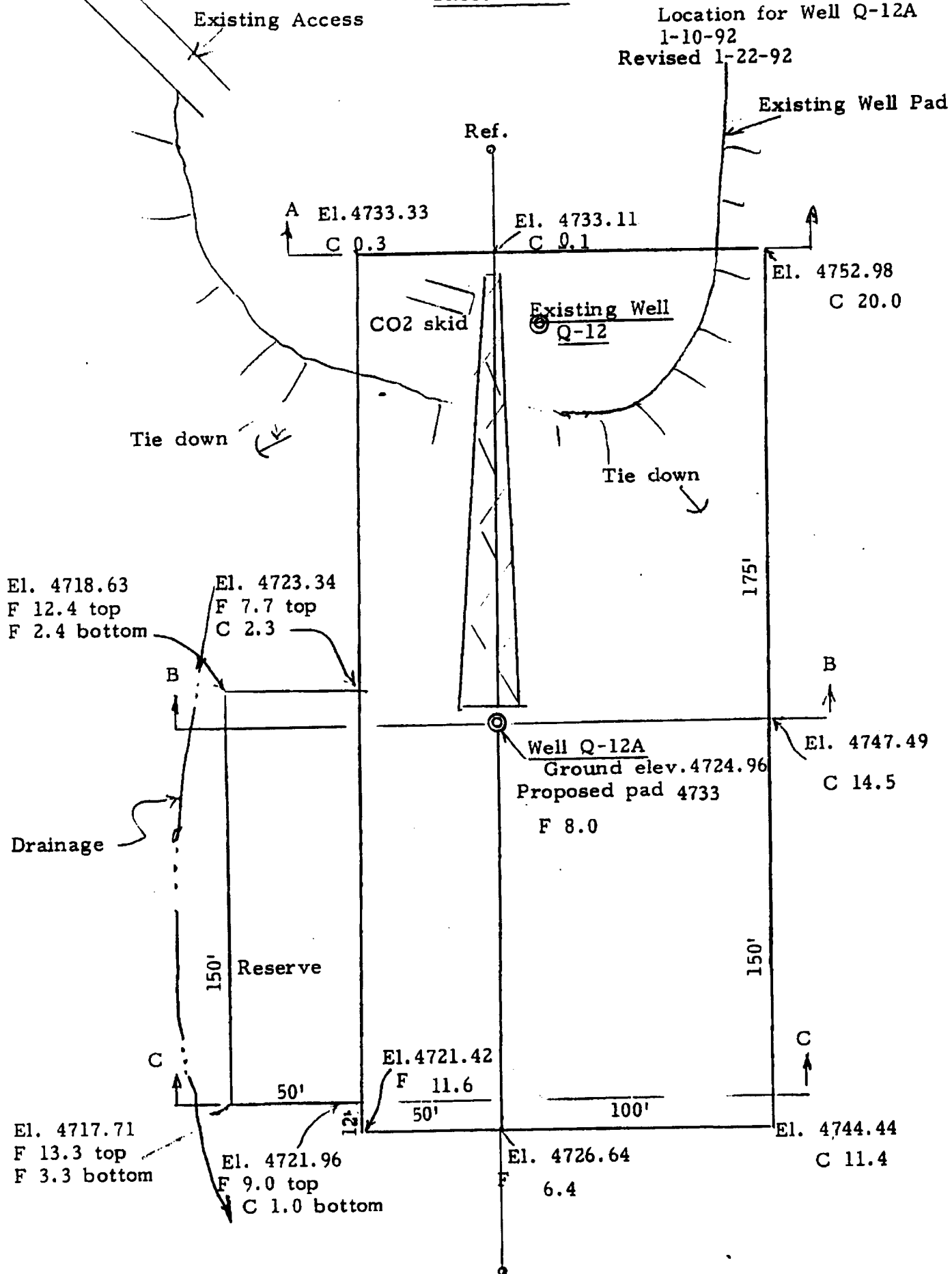
Utah Reg. No. 4346



**THOMAS** Engineering Inc.

215 N. Linden  
Cortez, Colorado  
965-4496





Scale: 1" = 50'

**THOMAS** Engineering Inc.218 N. Linden  
Cortez, Colorado  
585-4496

## 8 Point Drilling Program

### 1. ESTIMATED FORMATION TOPS\*

<u>Formation Name</u>	<u>Depth from GL</u>	<u>Depth from KB</u>	<u>Subsea Depth</u>
Chinle	1300'	1312'	3433'
DeChelly SS	2660'	2672'	2073'
Hemosa Ls	4470'	4482'	263'
Ismay LS	5380'	5392'	-647'
L. Ismay LS	5460'	5472'	-727'
Gothic Shale	5500'	5512'	-767'
Desert Creek I	5510'	5522'	-777'
Desert Creek II	5630'	5642'	-897'
Chimney Rock Shale	5720'	5732'	-987'
Total Depth (TD)	5800'	5812'	-1067'

\* All depths based on ground level of 4,733'

### 2. NOTABLE ZONES

The estimated formation top depths from GL at which water, oil, gas, or other mineral bearing zones may be encountered are:

<u>Possible Water Zone</u>	<u>Possible Coal Zone.</u>	<u>Possible Oil or Gas Zones</u>
De Chelley SS 2,660'		Desert Creek I 5,510'
		Desert Creek II 5,630'

Propose to drill, complete and equip a water injection well in the Desert Creek formation.

The well will be cased throughout its length and cemented to the surface, if possible.

If the well is plugged and abandoned, then cement plugs will be placed opposite all open perforations extending 50 above the highest perforation and 50 below the lowest perforation in each interval. See PAGE 5 for diagrams of completed and plugged well bores.

Mobil Oil Corporation  
McElmo Creek Unit "Q" #12-A  
368' FSL and 917' FWL  
Section 32, T-40-S, R-25-E  
San Juan Co., Utah

Page 2

### 3. PRESSURE CONTROL (Also see "5" on PAGE 2)

The drilling contract has not yet been awarded, thus the exact types of BOPs to be used are not yet known. Examples of a typical BOP and choke manifold are on PAGE 4. Maximum anticipated surface pressure will be 2,000 psi.

Once out from under the surface casing, a minimum 11" 3,000 psi system will be used with two hydraulic rams (blind/pipe). The choke manifold will have a minimum 3,000 psi rating.

BOPs will be tested to their working pressure after nipping up and after any use under pressure. Pipe rams will be function tested daily. Blind rams will be function tested after each trip out of the hole. BOP tests will be recorded on IADC reports.

Upper and lower kelly valves, floor safety valve, and drill string inside BOP rated at a minimum 3,000 psi will be maintained on the floor at all times. Upper and lower kelly valves will be in use at all times. Back pressure and full opening drill string safety valves will be available on the rig floor at all times.

### 4. CASING & CEMENTING

<u>Hole Size</u>	<u>O.D.</u>	<u>Weight</u>	<u>Grade</u>	<u>Conn.</u>	<u>Age</u>	<u>Setting Depth(GL)</u>
17 1/2"	13 3/8"	48 #	H40	STC	New	0000' - 0080'
11"	9 5/8"	36 #	K55	STC	New	0000' - 1600'
8 3/4"	7"	23 #	K55	LTC	New	0000' - 5800'

Surface Casing (O' to 80' ): Cement to surface with 112 cubic feet. Volume calculated with 100% excess. Ready-Mix cement.

Intermediate Casing (O' to 1,600' ): Cement to surface with 651 cubic feet. Volume calculated with 30% excess. Lead with slurry of 65/35/6 "B" Poz + 2% CaCl<sub>2</sub>. Tail with Class "B" + 2% CaCl<sub>2</sub>. Total of 12 centralizers and one stop collar. One on the shoe joint and one every third collar to 200' from surface.

Production Casing (O to 5,800' ): Multistage cement tool @ +/- 2,750'. Cement to 2,750' with 600 cubic feet for the first stage. Volume calculated with 30% excess. Lead with slurry of 65/35/6 "B" Poz + .5% CF-2. Tail with Class "H" + 1#/sx WL-1P + .8% CF-9. Cement to surface with 550 cubic feet for the second stage. Volume calculated with 30% excess. Lead with slurry of Class "B" + 2% CaCl<sub>2</sub>. Tail with Class "B" + .9% CF-1. Total of 17 centralizers and 3 stop collars. One centralizer on the float shoe, two centralizers on the float collar, and one centralizer every third collar.

Mobil Oil Corporation  
McElmo Creek Unit "Q" #12-A  
368' FSL and 917' FWL  
Section 32, T-40-S, R-25-E  
San Juan Co., Utah

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5. MUD PROGRAM

<u>Depth</u>	<u>Type</u>	<u>Weight</u>	<u>Viscosity</u>	<u>Fluid Loss</u>
0000'-1600'	FW/Spud mud	8.4-8.8	35-45	NC
1600'-5000'	FW/PHPA	9-11.5	36-48	NC
5000'-5800'	FW/PHPA	10-11.5	36-48	10-15

6. CORING, TESTING, LOGGING

No cores are currently planned. DIL-SFL-GR-SP, Density-Neutron-GR-Cal, RFT, Microlog, and a Sonic Log may be run.

7. DOWNHOLE CONDITIONS

Possible water flows in the De Chelly formation may be encountered.

8. MISCELLANEOUS

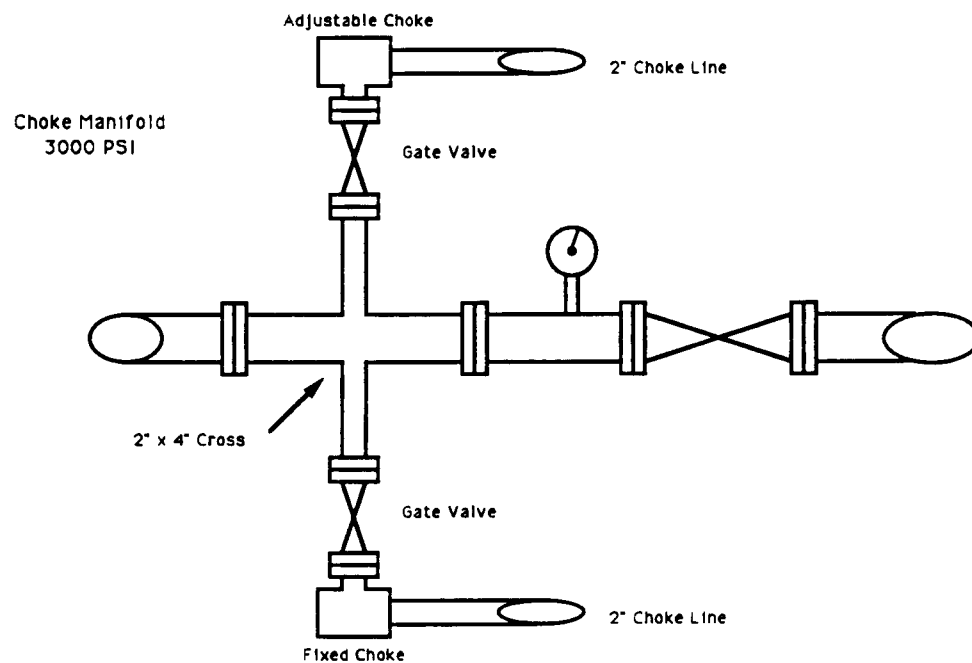
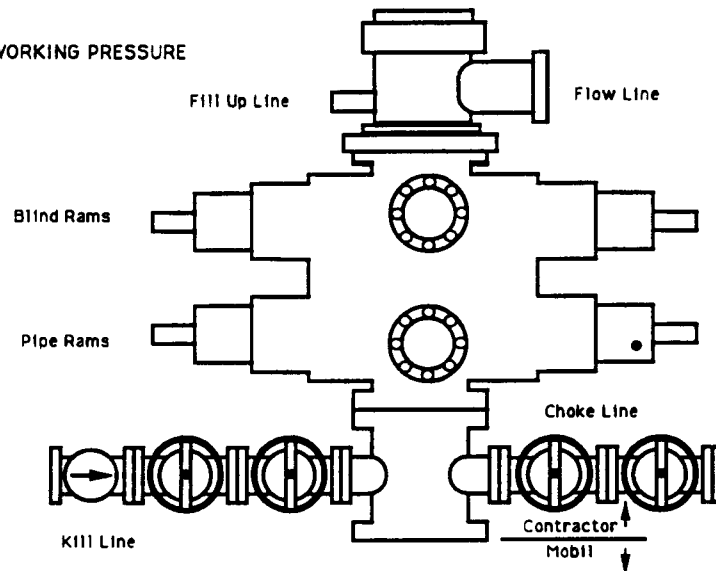
The anticipated spud date is April 1, 1992. It is expected it will take +/-16 days to drill the well and 7 days to complete the well.

Mobil Oil Corporation  
McElmo Creek Unit "Q" #12-A  
368' FSL and 917' FWL  
Section 32, T-40-S, R-25-E  
San Juan Co., Utah

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BOP EQUIPMENT

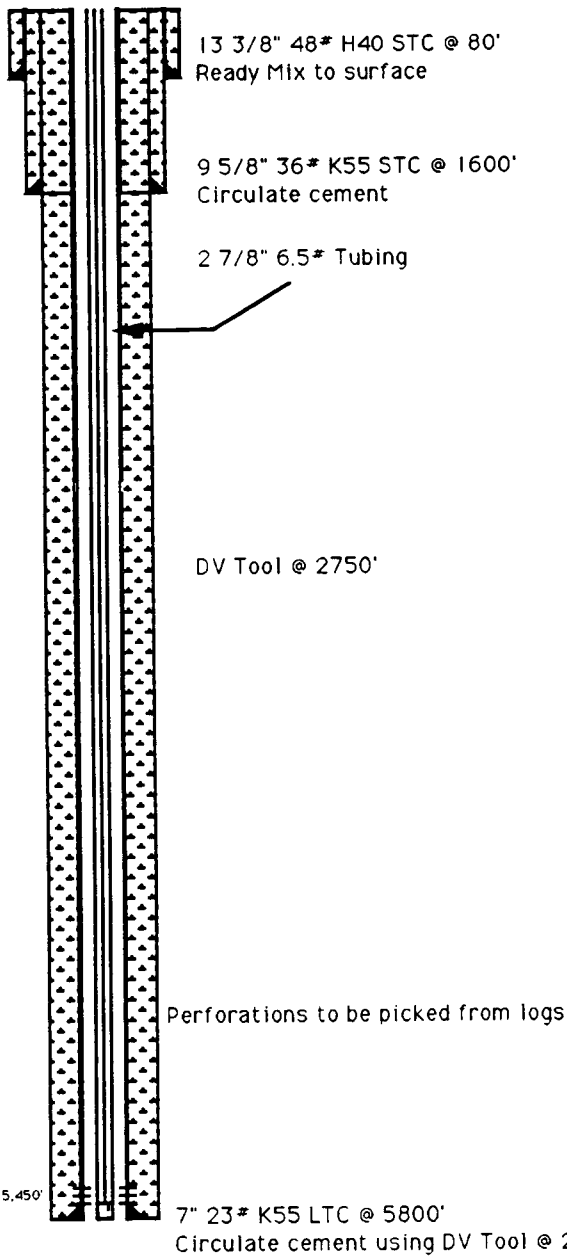
11" X 3000 PSI WORKING PRESSURE



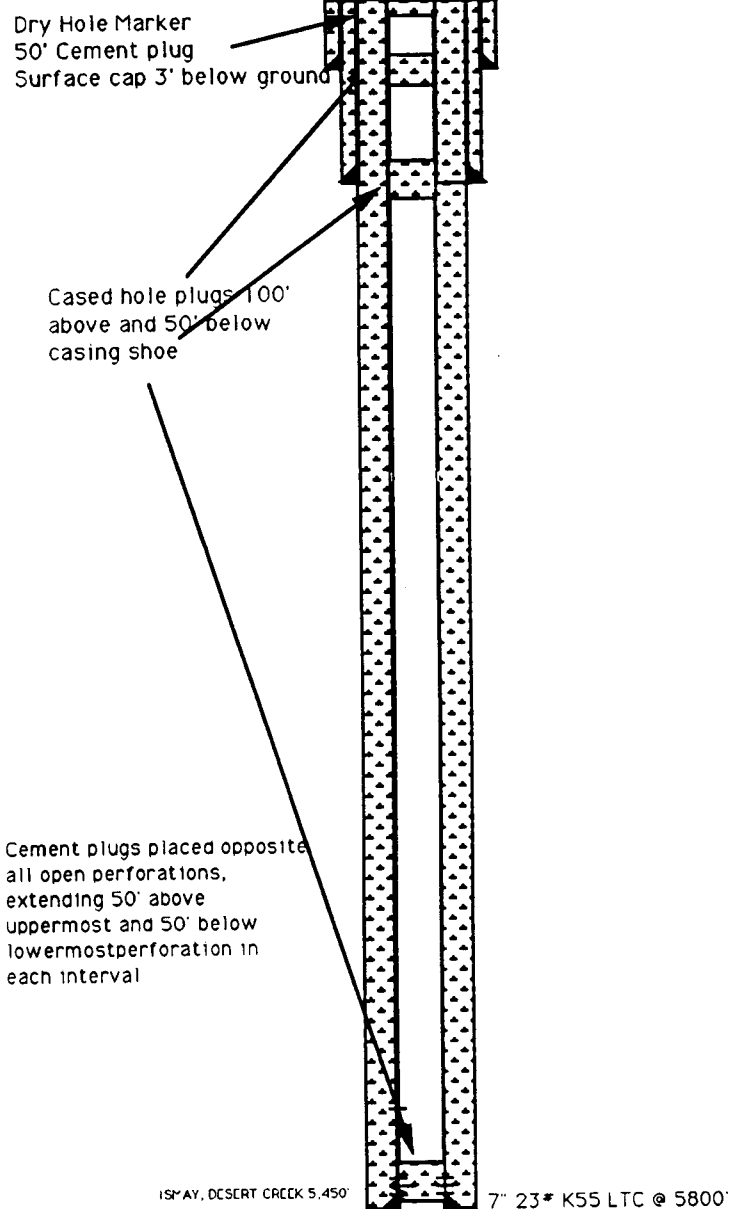
Mobil Oil Corporation  
 McElmo Creek Unit "Q" #12-A  
 368' FSL and 917' FWL  
 Section 32, T-40-S, R-25-E  
 San Juan Co., Utah

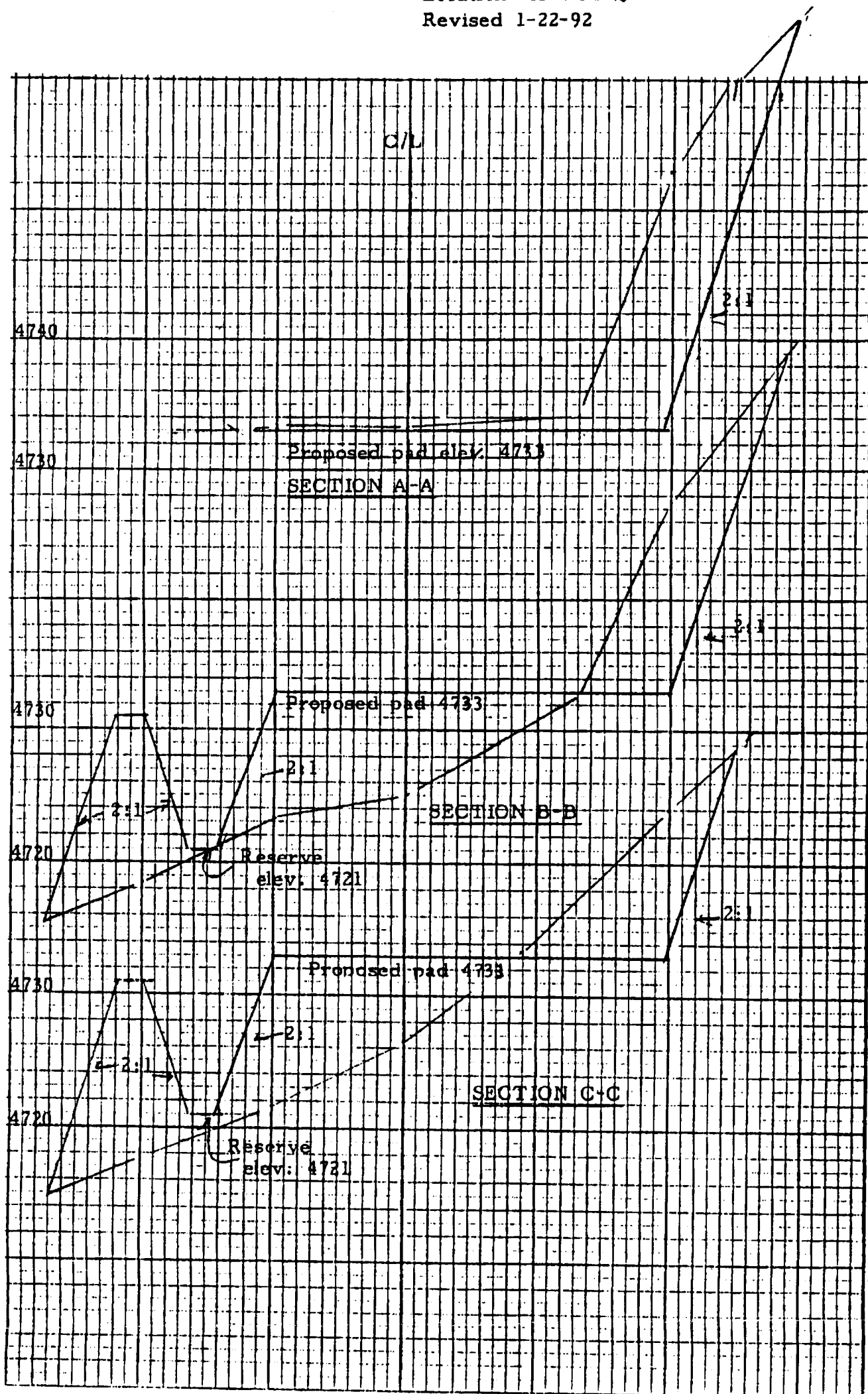
Page 5

Proposed Completion



Proposed P&A





Horizontal scale: 1" = 50'  
Vertical scale: 1" = 10'

**THOMAS** Engineering Inc.

215 N. Linden  
Cortez, Colorado  
565-4496

OPERATOR Mobil Oil Corp N-3790 DATE 07-01-90  
WELL NAME McElmo Creek Unit Q-10A  
SEC SESE 30 T 40S R 05E COUNTY San Juan

43-037-31677  
API NUMBER

Indian (0)  
TYPE OF LEASE

CHECK OFF:

☒ PLAT chg APD code to reflect correct plat

☒ BOND

☒ NEAREST WELL

☒ LEASE

☒ FIELD SLOM

☒ POTASH OR OIL SHALE

PROCESSING COMMENTS:

included in 91 POD approved 0-6-90  
Water Permit  
this well to be a water injection well per POD

APPROVAL LETTER:

SPACING: ☒

☐

R615-3-3  
R615-2-3

McElmo Creek  
UNIT

☐

R615-3-2

N/A  
CAUSE NO. & DATE

☐

R615-3-3

STIPULATIONS:

1- Water Permit





# State of Utah

DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

Norman H. Bangerter  
Governor

Dee C. Hansen  
Executive Director

Dianne R. Nielson, Ph.D.  
Division Director

355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203  
801-538-5340

April 1, 1992

Mobil Oil Corporation  
P.O. Box 633  
Midland, Texas 79702

Gentlemen:

Re: McElmo Creek Unit Q-12A Well, 368 feet from the south line, 917 feet from the east line, SE 1/4 SE 1/4, Section 32, Township 40 South, Range 25 East, San Juan County, Utah

Pursuant to Utah Code Ann. § 40-6-18, (1953, as amended), Utah Admin. R. 649-2-3 (formerly R. 615-2-3), and Utah R. 649-3-4 (formerly R. 615-3-4), approval to drill the referenced well is hereby granted.

In addition, the following specific actions are necessary to fully comply with this approval:

1. Submittal to the Division of evidence providing assurance of an adequate and approved supply of water as required by Utah Code Ann. § 73-3, Appropriations, prior to commencing drilling operations.
2. Compliance with the requirements of Utah Admin. R. 649-1 et seq. (formerly R. 615-1 et seq.), Oil and Gas Conservation General Rules.
3. Notification within 24 hours after drilling operations commence.
4. Submittal of Entity Action Form, Form 6, within five working days following commencement of drilling operations and whenever a change in operations or interests necessitates an entity status change.
5. Submittal of the Report of Water Encountered During Drilling, Form 7.
6. Prompt notification prior to commencing operations, if necessary, to plug and abandon the well. Notify Frank R. Matthews, Petroleum Engineer, (Office) (801)538-5340, (Home) (801)476-8613, or R.J. Firth, Associate Director, (Home) (801)571-6068.

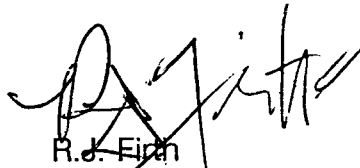
Page 2  
Mobil Oil Corporation  
McElmo Creek Unit Q-12A Well  
April 1, 1992

7. Compliance with the requirements of Utah Admin. R. 649-3-20 (formerly R. 615-3-20), Gas Flaring or Venting, if the well is completed for production.

Prior to commencement of the proposed drilling operations, plans for facilities for disposal of sanitary wastes at the drill site should be submitted to the local health department. These drilling operations and any subsequent well operations should be conducted in accordance with applicable state and local health department regulations. A list of local health departments and copies of applicable regulations are available from the Department of Environmental Quality, Division of Drinking Water/Sanitation, telephone (801)538-6159.

This approval shall expire one year after date of issuance unless substantial and continuous operation is underway or a request for an extension is made prior to the approval expiration date. The API number assigned to this well is 43-037-31677.

Sincerely,



R. J. Firth  
Associate Director, Oil and Gas

ldc  
Enclosures  
cc: Bureau of Land Management  
J.L. Thompson  
WOI1



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION IX  
75 Hawthorne Street  
San Francisco, Ca. 94105-3901

MAY 27 1992

Mail Code: W-6-2

RECEIVED  
MAY 29 1992

Gil Hunt  
Program Manager of Class II  
Utah Board of Oil, Gas and Mining  
355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180

DIVISION OF  
OIL GAS & MINING

Dear Mr. Hunt:

Enclosed please find the Final Permit for a Class II enhanced recovery injection well in the Aneth Field issued to Mobil Exploration & Producing U.S. Inc. Unless an appeal is made to the Administrator, the permit will become final thirty (30) days from the date of receipt.

Also enclosed is a Response to Comments for several comments submitted during the 30-day comment period.

If you have any questions about the permit, please call Nicole Moutoux at (415) 744-1833.

Sincerely,

*Shannon FitzGerald*  
for Clarence Tenley, Chief  
Underground Injection Control Section

enclosures



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION IX  
75 Hawthorne Street  
San Francisco, CA 94105

RECEIVED

MAY 29 1992

Response to Comments  
Class II Permit for Mobil Oil & Producing Inc.

DIVISION OF  
OIL GAS & MINING

We received comments from Mobil Oil & and Producing Inc. and the Navajo Nation. Their comments and our responses are as follows.

Mobil Oil & and Producing Inc.

- 1) They requested that since it is generally accepted that the underground source of drinking water (USDW) does not extend beneath the top of the Chinle Formation, they be only required to obtain fluid samples from the Wingate Formation.

*Based on drawings provided as part of the permit application, EPA understood that the bottom of the Chinle is the base of the USDW. However, we find that the Wingate Formation is generally accepted as the lowermost USDW and the permit will be changed to require fluid samples from only the Wingate Formation, and not from the Chinle Formation.*

- 2) They requested that the language in the last sentence of Part II.A.5 be changed to clarify across which zones they are required to run open hole logs.

*EPA's main concern is that the open hole logs be run across the USDWs. The sentence will be changed to read: "Upon reaching the 9 5/8 inch casing point at 1800 feet, run a suite of open hole resistivity, gamma ray, sp, and porosity logs from 1800 feet to the base of the 13 3/8 inch short surface casing at 400 feet. Upon reaching the seven inch casing point at 1800 feet, run a suite of open hole resistivity, gamma ray, sp, and porosity logs from total depth to the base of the 9 5/8 inch short intermediate casing."*

The Navajo Nation

- 1) They requested that we clarify the language in Part II.A.5.b stipulating the zones across which the cement bond log should be run. Confusion has arisen over the terms "surface casing" and "conductor casing".

*EPA will use the terms to describe surface and conductor casing given on the drawing of the well on page 22 of the permit. Part II.A.5.b is consistent with the terms on the*

*drawing and will not be changed. However, the second sentence of Part II.A.1 will be changed to read: " The short surface casing will be cemented from surface to 400 feet KB. The short intermediate casing will be cemented to surface from 1800 feet KB providing suitable protection through the base of the lower-most underground source of drinking water (USDW), the top of the Chinle Formation."*

- 2) They requested that, if possible, the permittee obtain samples from the Navajo Formation in order to provide additional information for the on-going USGS study of brine contamination of the Navajo Formations in the Aneth Area.

*EPA has spoken contacted USGS concerning this request and was informed that additional information from this well would be helpful, but not necessary. EPA will not require fluid samples to be obtained from the Navajo Formation.*

- 3) They found a typo on the third line of Part II.A.6. They also requested that the last sentence in this part be deleted or modified to fit the situation of an undrilled wellbore.

*The typo has been corrected in the final permit. The last sentence of Part II.A.6, regarding the expiration of authorization to inject, has been deleted.*

- 4) Since this will be a newly drilled and constructed well, they requested that, instead of 1000 psig, a minimum pressure of 1500 psig or the maximum anticipated injection pressure, whichever is greater, be required for demonstrating internal mechanical integrity.

*EPA has recently completed a guidance entitled, "MIT Part I: Requirements for Internal Test". The requirements set forth in the permit are consistent with this guidance. EPA sets the same MIT requirements for both newly drilled wells and existing wells.*

- 5) They are concerned that the estimated cost to plug and abandon the well is insufficient.

*EPA feels that the estimated cost will be sufficient to plug and abandon the well according to EPA requirements.*

**UNDERGROUND INJECTION CONTROL PROGRAM**

**PERMIT**

**Class II Enhanced Recovery Well**

**Permit No. NN292000003**

**Well Name: McElmo Creek Unit #Q-12A**

**Field Name: Aneth Field**

**San Juan County, Utah**

**Navajo Nation**

**Issued to:**

**Mobil Exploration & Producing U.S. Inc.  
P.O. Box 633  
Midland, Texas 79702**

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## **PART I. AUTHORIZATION TO CONSTRUCT**

Pursuant to the Underground Injection Control Regulations of the U.S. Environmental Protection Agency codified at Title 40 of the Code of Federal Regulations, Parts 124, 144, 145, 146, 147, and 148,

Mobil Oil Corporation  
P.O. Box 633  
Midland, TX 79702

is hereby authorized to construct and operate a Class IIR injection well known as McElmo Creek Unit Q-12A. The well is located in Section 32, T40S, R25E in the Aneth Field in San Juan County, Utah.

Injection shall be for the purpose of enhanced recovery of oil by the alternate injection of produced and supplemental fresh waters and carbon dioxide (WAG process) into portions of the Desert Creek Lime Formation in accordance with the conditions set forth herein.

Injection activities shall not commence until the operator has fulfilled all applicable conditions of this permit and has received written authorization from the Director. "Prior to Commencing Injection" requirements are set forth in Part II, Section C.1 of this permit.

All conditions set forth herein refer to Title 40 Parts 124, 144, 146, and 147 of the Code of Federal Regulations and are regulations that are in effect on the date that this permit becomes effective.

This permit consists of a total of 29 pages and includes all items listed in the Table of Contents. Further, it is based on the representations made by the permittee and on other information contained in the administrative record. It is the responsibility of the permittee to read and understand all provisions of this permit.

This permit and authorization to inject are issued for a period of ten years unless terminated under the conditions set forth in Part III, Section B of this permit. The permit will expire upon delegation of primary enforcement responsibility for the Class II Program to an appropriate agency of the Navajo Nation, unless the Navajo Nation agency has the appropriate authority and chooses to adopt and enforce this permit as a State permit.

Issued this 26<sup>th</sup> day of May, 1992

This permit shall become effective June 29, 1992

*for* Alexis Strauss  
Harry Seraydarian, Director  
Water Management Division

## PART II. SPECIFIC PERMIT CONDITIONS

### A. WELL CONSTRUCTION REQUIREMENTS

1. Casing and Cementing. The construction details submitted with the application are hereby incorporated into this permit as Appendix A and shall be binding on the permittee. The short surface casing will be cemented from surface to 400 feet KB. The short intermediate casing will be cemented to surface from 1800 feet KB providing suitable protection through the base of the lower-most underground source of drinking water (USDW), the top of the Chinle Formation. The long string casing will be cemented from total depth of 5800 feet to the surface. The casing and cement used in the construction of the well will be designed for the life expectancy of the well and shall be maintained throughout the operating life of the well.
2. Tubing and Packer Specifications. Two and seven-eighths (2-7/8) inch injection tubing will be utilized, with the end of the tubing at 5425 feet and an appropriate packer set at 5430 feet inside the seven (7) inch long string casing (Appendix A). The casing/tubing annulus will be filled with corrosion-inhibited fluid. Injection between the outermost casing and the wellbore is prohibited.
3. Monitoring Devices. The operator shall install and maintain in good operating condition:
  - (a) A tap on the discharge line between the injection pump and the wellhead for the purpose of obtaining representative samples of the injection fluids;
  - (b) Two one-half ( $\frac{1}{2}$ ) inch FIP fittings, isolated by plug or globe valves, and positioned to provide for either (1) the permanent attachment of one-half ( $\frac{1}{2}$ ) inch MIP gauges, or (2) the attachments for equivalent "quick-disconnect" gauges at the wellhead on the injection tubing and on the tubing/annulus. The gauges used shall be of a design to provide (1) a full pressure range of 100 percent greater than the anticipated operating pressure, and (2) a certified deviation accuracy of five (5) percent or less; and
  - (c) A flow meter with measured cumulative volumes that are certified for a deviation accuracy of five (5) percent or less throughout the range of injection rates allowed by the permit.

4. Proposed Changes and Workovers. The permittee shall give advance notice to the Director as soon as possible, of any planned physical alterations or additions to the permitted injection well. Any changes in the well construction will require prior approval of the EPA and a permit modification under the requirements of 40 CFR § 144.39. In addition, the permittee shall provide all records of well workovers, logging, or other subsequent test data, including required mechanical integrity testing, to EPA within sixty (60) days of completion of the activity. Appendix B contains samples of the appropriate reporting forms. Demonstration of mechanical integrity shall be performed within thirty (30) days of completion of workovers or alterations and prior to resuming injection activities, in accordance with Part II, Section C.1.(a).

5. Well Logging and Testing. The permittee shall be required to:

- a) Measure the injection zone fluid pore pressure prior to beginning injection as required by 40 CFR 146.22 (g)(1).
- b) Run a cement bond log from the total depth of 5800 feet to the base of the short surface casing at 400 feet.
- c) Perform a controlled injectivity test (step-rate test) to determine the fracture pressure of the injection zone.
- d) Obtain fluid samples from the Wingate Formation and analyze the samples for Total Dissolved Solids, major ions and pH.

Upon reaching the 9 5/8 inch casing point at 1800 feet, run a suite of open hole resistivity, gamma ray, sp, and porosity logs from 1800 feet to the base of the 13 3/8 inch short surface casing at 400 feet. Upon reaching the 7 inch casing point at 1800 feet, run a suite of open hole resistivity, gamma ray, sp, and porosity logs from total depth to the base of the 9 5/8 inch short intermediate casing at 1800 feet.

6. Postponement of Construction. If the well is not constructed within one (1) year from the effective date of this permit, the permit will automatically expire unless the permittee requests an extension. The written request shall be made to the Director, in lieu of the annual reporting requirements of Part II, Section D. 4., and shall state the reasons for the delay of

construction.

Financial responsibility shall be maintained during the period of inactivity in accordance with Part II, Section F. Once authorization to inject expires under this part, the full permitting process, including opportunity for public comment, must be repeated before authorization to inject will be re-issued.

## **B. CORRECTIVE ACTION**

Within the one-half-mile-radius Area of Review (AOR), there are five (5) oil production wells (#P-10, #P-12, #Q-11, #Q-13, #R-12), one (1) plugged and abandoned injection well (#R-11), and seven (7) active injection wells (#O-12, #P-11, #P-13, #Q-10, #Q-12, #R-11A, #R-13). No corrective action is required at this time.

## **C. WELL OPERATION**

1. Prior to Commencing Injection. Injection operations may not commence until the permittee has complied with (a) and (b) as follows:
  - (a) Construction and testing is complete and the permittee has submitted a COMPLETION REPORT FOR BRINE DISPOSAL, HYDROCARBON STORAGE, OR ENHANCED RECOVERY WELL (EPA Form 7520-10) in Appendix B; and
    - (i) The Director has inspected or otherwise reviewed the new injection well and notifies the operator that it is in compliance with the conditions of the permit; or
    - (ii) The permittee has not received notice from the Director of his or her intent to inspect or otherwise review the new injection well within thirteen (13) days of the date the Director has received the COMPLETION REPORT FOR BRINE DISPOSAL, HYDROCARBON STORAGE, OR ENHANCED RECOVERY in paragraph (a) of this permit condition in which case prior inspection or review is waived and the permittee may commence injection; and
  - (b) The permittee demonstrates that the well has mechanical integrity in accordance with 40 CFR 146.8 and paragraph Part II, Section 2, (a), below, and has received written notice from the Director that such a

demonstration is satisfactory. The permittee shall notify EPA two (2) weeks prior to conducting this test so that a representative may be present to observe the test. Results of the test shall be submitted to the Director as soon as possible, but no later than thirty (30) days after the demonstration.

2. Mechanical Integrity.

- (a) Method for Demonstrating Internal Mechanical Integrity. A demonstration of the absence of significant leaks in the casing, tubing and/or packer must be made by performing a tubing/casing annulus pressure test. This test shall be for a minimum of thirty (30) minutes at 1) a minimum pressure of 1000 psig and 2) with a pressure in the tubing at least 300 psig lower than the pressure in the tubing/casing annulus. The tubing/casing annulus shall be filled with a non-corrosive fluid at least 24 hours in advance of the test. Pressure values shall be recorded at five (5) minute intervals or less. A well passes the mechanical integrity test if there is less than a five (5) percent increase/decrease in pressure over the thirty (30) minute period. Weekly observations and weekly recordings of injection pressure, annulus pressure and flow rate shall be made.
- (b) Method for Demonstrating External Mechanical Integrity. The permittee must show that there is no significant fluid movement through vertical channels adjacent to the injection wellbore. The absence of fluid movement may be shown using either a temperature log, noise log, the oxygen activation method or another method allowed by the Director with written approval from the Administrator.
- (c) Schedule for Demonstrations of Mechanical Integrity.
  - (i) Demonstrations of internal and external mechanical integrity shall be made in accordance with 40 CFR § 146.8 and paragraphs (a) and (b) above. A demonstration of internal mechanical integrity shall be made no less frequently than every three (3) years from the effective date of this permit. A demonstration of external mechanical integrity shall be made no less frequently than every five (5) years from the effective date of this permit. Mechanical integrity shall also

be demonstrated any time that a workover is conducted, the construction of the well is modified or when loss of mechanical integrity becomes evident during operation.

- (ii) It shall be the permittee's responsibility to arrange and conduct the mechanical integrity demonstrations. The permittee shall notify the Director of its intent to demonstrate mechanical integrity at least thirty (30) days prior to each such demonstration. Results of the test shall be submitted to the Director as soon as possible, but no later than sixty (60) days after the demonstration.
    - (iii) In addition to any demonstration made under paragraph (i) above, the Director may require a demonstration of mechanical integrity at any time during the life of the well.
  - (d) Loss of Mechanical Integrity. If (1), the well fails to demonstrate mechanical integrity during a test, or (2), a loss of mechanical integrity becomes evident during operation, or (3), a significant change in the annulus or injection pressure occurs during normal operating conditions, the permittee shall notify the Director in accordance with Part III, Section E.10 of this permit. Furthermore, injection activities shall be terminated immediately and operations shall not be resumed until the permittee has taken necessary actions to restore integrity to the well and EPA gives approval to recommence injection.
3. Injection Interval. Injection shall be permitted for the Paradox Formation in the subsurface interval of 5460 feet to 5718 feet. Injection perforations may be added or squeezed-off only within this interval. Alteration of the injection perforations and other rework conditions must be properly reported (EPA Form 7520-12) and the well must demonstrate mechanical integrity before injection is resumed.
4. Injection Pressure Limitation.
- (a) The injection pressure limitations shall be determined by the Director upon performance of a valid step-rate injection test on the well in the respective proposed injection zone(s). Injection may not commence until a step-rate test has been performed and injection pressure limitations have been established by the Director.

- (b) The injection pressure limitation established in paragraph (a) may be increased by the Director if the fracture pressure of the injection formation will not be exceeded. The Director will determine any allowable increase based upon the step-rate test results and other parameters reflecting actual injection operation.
- (c) The injection pressure limitations determined by the Director as stated in paragraph (a) or any approval granted by the Director for the increased pressure limitations stated in paragraph (b) shall be made part of this permit by minor modification without further opportunity for public comment.

5. Injection Volume (Rate) Limitation.

- (a) The maximum injection rate shall be limited to 2000 bpd. Injection pressure limitations set in Part II.C.4 shall not be exceeded.
- (b) The permittee may request an increase in the maximum rate allowed in paragraph (a). Any such request shall be made in writing to the Director.
- (c) Should any increase in rate be requested, the permittee shall demonstrate to the satisfaction of the Director that the increase in volume will not cause migration of formation or injected fluids into any USDW, nor cause any injected fluids to move beyond the Area of Review boundary.

6. Injection Fluid Limitation.

- (a) The permittee shall not inject any hazardous wastes as defined by 40 CFR 261, at any time during the operation of the facility.
- (b) The well shall be used for the injection of produced and supplemental fresh waters and carbon dioxide for the purpose of secondary oil recovery.
- (c) Fluids to be injected other than those described in paragraph (b) above, shall be limited to occasional minor amounts of well treatment fluids such as dilute acids and corrosion inhibiting fluids. The injection of any fluids other than those described in paragraph (b) above, shall be reported to the Director within thirty (30) days.



7. Annular Fluid. The annulus between the tubing and the casing shall be filled with a corrosion inhibiting solution; or other fluid as approved, in writing, by the Director.

**D. MONITORING, RECORDKEEPING, AND REPORTING OF RESULTS**

1. Injection Well Monitoring Program. Samples and measurements shall be representative of the monitored activity. The permittee shall utilize the applicable analytical methods described in Table I of 40 CFR Section 136.3, or in Appendix III or 40 CFR Section 261, or in certain circumstances, by other methods that have been approved by the EPA Administrator. Monitoring shall consist of:
  - (a) Analysis of the injection fluids. The analysis shall be performed:
    - (i) annually for Total Dissolved Solids, major ions, pH
    - (ii) whenever there is a change in the source of injection fluids.
  - (b) Weekly observations and monthly recordings of injection pressure, annulus pressure, flow rate, and cumulative volume.
2. Monitoring Information. Records of any monitoring activity required under this permit shall include:
  - (a) The date, exact place, and time of sampling or field measurements;
  - (b) The name of the individual(s) who performed the sampling or measurements;
  - (c) The exact sampling method(s) used to take samples;
  - (d) The date(s) laboratory analyses were performed;
  - (e) The name(s) of the individual(s) who performed the analyses;
  - (f) The analytical techniques or methods used by laboratory personnel; and
  - (g) The results of such analyses.

3. Recordkeeping.

- (a) The permittee shall retain records concerning:
  - (i) the nature and composition of all injected fluids until three (3) years after the plugging and abandonment has been carried out in accordance with the Plugging and Abandonment Plan shown in Appendix C.
  - (ii) all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation and copies of all reports required by this permit for a period of at least five (5) years from the date of the sample measurement or report throughout the operating life of the well.
- (b) The permittee shall continue to retain such records after the retention period specified in paragraphs (a) (i) and (a) (ii) unless it delivers the records to the Director or obtains written approval from the Director to discard the records.
- (c) The permittee shall maintain copies (or originals) of all pertinent observation records available for inspection at the facility.

4. Reporting of Results. The permittee shall submit an Annual Report to the Director summarizing the results of the monitoring required by Part II, Sections D.1-2. of this permit. Copies of all monthly records on flow rates, volumes, pressures and injected fluids, and any major changes in characteristics or sources of injected fluid shall be included in the Annual Report.

The first Annual Report shall cover the period from the effective date of this permit through December 31. Subsequently, the Annual Report shall cover the period of January 1 through December 31 and shall be submitted by January 31 of the following year. Appendix B contains Form 7520-11 which may be copied and used to submit the annual summary of monitoring.

E. **PLUGGING AND ABANDONMENT**

1. Notice of Plugging and Abandonment. The permittee shall notify the Director forty-five (45) days before conversion, workover, or abandonment

of the well. The Director may require that the plugging and abandonment be witnessed by an EPA representative.

2. Plugging and Abandonment Plan. The permittee shall plug and abandon the well as provided in the Plugging and Abandonment Plan in Appendix C. The EPA reserves the right to change the manner in which the well will be plugged if the well is modified during its permitted life or if the well is not consistent with EPA requirements for construction and mechanical integrity. The Director may ask the permittee to estimate and to update the estimated plugging cost periodically. Such estimates shall be based upon costs which a third party would incur to plug the well according to the plan.
3. Cessation of Injection Activities. After a cessation of operations of two (2) years, the permittee shall plug and abandon the well in accordance with the Plugging and Abandonment Plan, unless it:
  - (a) has provided notice to the Director, and
  - (b) has demonstrated that the well will be used in the future, and
  - (c) has described actions or procedures satisfactory to the Director, that will be taken to ensure that the well will not endanger underground sources of drinking water during the period of temporary abandonment.
4. Plugging and Abandonment Report. Within sixty (60) days after plugging the well, the permittee shall submit a report on Form 7520-13 to the Director. The report shall be certified as accurate by the person who performed the plugging and abandonment operation and the report shall consist of either: (1) a statement that the well was plugged in accordance with the plan, or (2) where actual plugging differed from the plan, a statement specifying the different procedures followed.

#### **F. FINANCIAL RESPONSIBILITY**

1. Demonstration of Financial Responsibility. The permittee is required to maintain financial responsibility and resources to close, plug, and abandon the injection well as provided in the plugging and abandonment plan.
  - (a) The permittee shall submit financial statements and other

information annually, or as required by the EPA, in order to demonstrate that its financial position remains sound, and that it continues to have adequate financial resources, as determined by EPA, to close, plug, and abandon the injection well in accordance with the approved plugging and abandonment plan.

- (b) If financial statements or other information indicate that the permittee no longer has the financial resources, according to EPA criteria, to assure that the injection well will be properly plugged and abandoned, then the permittee must make an alternate showing of financial responsibility. This showing must be acceptable to the Director and must be submitted within sixty (60) days after having been notified by EPA of the necessity for making an alternate showing of financial responsibility.
- (c) The permittee, upon its own initiative and upon written request to EPA, may change the financial responsibility mechanism. Any such change must be approved by the Director. A minor permit modification will be made to reflect any change in financial mechanism, without further opportunity for public comment.

2. Insolvency of Financial Institution. The permittee must submit an instrument of financial responsibility acceptable to the Director within sixty (60) days after either of the following events occur:

- (a) the institution issuing the bond or financial instrument files for bankruptcy; or
- (b) the authority of the trustee institution to act as trustee, or the authority of the institution issuing the financial instrument is suspended or revoked.

3. Cancellation of Demonstration by Financial Institution. The permittee must submit an alternative demonstration of financial responsibility acceptable to the Director, within sixty (60) days after the institution issuing the trust or financial instrument serves 120-day notice to the EPA of their intent to cancel the trust or financial instrument.

### **PART III. GENERAL PERMIT CONDITIONS**

#### **A. EFFECT OF PERMIT**

The permittee is allowed to engage in underground injection in accordance with the conditions of this permit. The permittee, as authorized by this permit, shall not construct, operate, maintain, convert, plug, abandon, or conduct any other injection activity in a manner that allows the movement of fluid containing any contaminant into underground sources of drinking water, if the presence of that contaminant may cause a violation of any primary drinking water regulation under 40 CFR Section 142 or otherwise adversely affect the health of persons. Any underground injection activity not authorized in this permit or otherwise authorized by permit or rule is prohibited. Issuance of this permit does not convey property rights of any sort or any exclusive privilege; nor does it authorize any injury to persons or property, any invasion of other private rights, or any infringement of state or local law or regulations. Compliance with the terms of this permit does not constitute a defense to any enforcement action brought under the provisions of Section 1431 of the Safe Drinking Water Act (SDWA) or any other law governing protection of public health or the environment for any imminent and substantial endangerment to human health or the environment, nor does it serve as a shield to the permittee's independent obligation to comply with all UIC regulations.

#### **B. PERMIT ACTIONS**

1. Modification, Reissuance, or Termination. The Director may, for cause or upon request from the permittee, modify, revoke and reissue, or terminate this permit in accordance with 40 CFR Sections 124.5, 144.12, 144.39, and 144.40. The permit is also subject to minor modifications for cause as specified in 40 CFR § 144.41. The filing of a request for a permit modification, revocation and reissuance, or termination or the notification of planned changes or anticipated noncompliance on the part of the permittee does not stay the applicability or enforceability of any permit condition.
2. Transfers. This permit is not transferable to any person except after written notice is provided to the Director and the permittee complies with the requirements of 40 CFR § 144.38. The Director may require modification or revocation and reissuance of the permit to change the name of the permittee and incorporate such other requirements as may be necessary under the SDWA.

### **C. SEVERABILITY**

The provisions of this permit are severable, and if any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit shall not be affected thereby.

### **D. CONFIDENTIALITY**

In accordance with 40 CFR Part 2 and 40 CFR § 144.5, any information submitted to EPA pursuant to this permit may be claimed as confidential by the submitter. Any such claim must be asserted at the time of submission by stamping the words "confidential business information" on each page containing such information. If no claim is made at the time of submission, EPA may make the information available to the public without further notice. If a claim is asserted, the validity of the claim will be assessed in accordance with the procedures in 40 CFR Part 2 (Public Information). Claims of confidentiality for the following information will be denied:

- The name and address of the permittee, and
- Information which deals with the existence, absence, or level of contaminants in drinking water.

### **E. GENERAL DUTIES AND REQUIREMENTS**

1. Duty to Comply. The permittee shall comply with all conditions of this permit, except to the extent and for the duration such noncompliance is authorized by an emergency permit. Any permit noncompliance constitutes a violation of the SDWA and is grounds for enforcement action, permit termination, revocation and reissuance, or modification. Such noncompliance may also be grounds for enforcement action under the Resource Conservation and Recovery Act (RCRA).
2. Penalties for Violations of Permit Conditions. Any person who violates a permit requirement is subject to civil penalties, fines, and other enforcement action under the SDWA and may be subject to such actions pursuant to RCRA. Any person who willfully violates permit conditions may be subject to criminal prosecution.

3. Need to Halt or Reduce Activity not a Defense. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.
4. Duty to Mitigate. The permittee shall take all reasonable steps to minimize or correct any adverse impact on the environment resulting from noncompliance with this permit.
5. Proper Operation and Maintenance. The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems only when necessary to achieve compliance with the conditions of the permit.
6. Duty to Provide Information. The permittee shall furnish the Director, within a time specified, any information which the Director may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The permittee shall also furnish to the Director, upon request, copies of records required to be kept by this permit.
7. Inspection and Entry. The permittee shall allow the Director, or an authorized representative, upon the presentation of credentials and other documents as may be required by law, to:
  - (a) Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records are kept under conditions on this permit;
  - (b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
  - (c) Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and

- (d) Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the SDWA any substances or parameters at any location.
- 8. Records of the Permit Application. The permittee shall maintain records of all data required to complete the permit application and any supplemental information submitted for a period of five (5) years from the effective date of this permit. This period may be extended by request of the Director at any time.
- 9. Signatory Requirements. All reports or other information requested by the director shall be signed and certified by a responsible corporate officer or duly authorized representative according to 40 CFR § 144.32.
- 10. Reporting of Noncompliance.
  - (a) Anticipated Noncompliance. The permittee shall give advanced notice to the Director of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.
  - (b) Compliance Schedules. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule in this permit shall be submitted no later than thirty (30) days following each schedule date.
  - (c) Twenty-four Hour Reporting.
    - (i) The permittee shall report to the Director any noncompliance which may endanger health or the environment. Information shall be provided orally within twenty-four (24) hours from the time the permittee becomes aware of the circumstances by telephoning the EPA project officer. The following information shall be included in the verbal report:
      - (A) Any monitoring or other information which indicates that any contaminant may cause endangerment to an underground source of drinking water



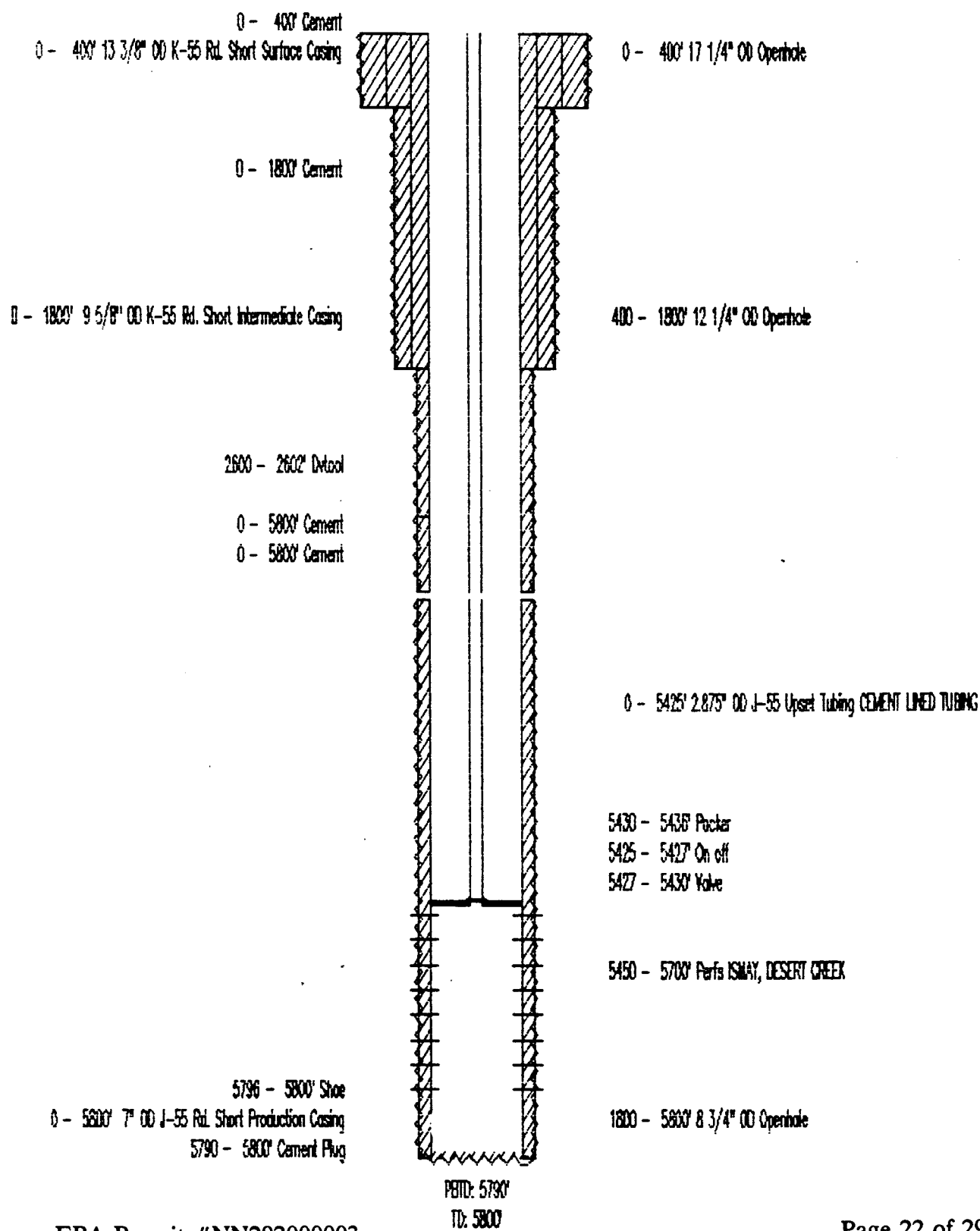
- (B) Any noncompliance with a permit condition or malfunction of the injection system which may cause fluid migration into or between underground sources of drinking water.
- (ii) A written submission shall also be provided within five (5) days of the time the permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance.
- (d) Other Noncompliance. The permittee shall report all other instances of noncompliance not otherwise reported at the time monitoring reports are submitted. The reports shall contain the information listed in Part III, Section E.10 (c)(ii) of this permit.
- (e) Other Information. Where the permittee becomes aware that it failed to submit all relevant facts in the permit application, or submitted incorrect information in a permit application or in any report to the Director, the permittee shall submit such facts or information within two (2) weeks of the time such information becomes known.

## **APPENDIX A - CONSTRUCTION PLAN**

API No. NOT AVAILABLE  
PROPOSED INJECTION WELL

McELMO CREEK UNIT Q-12A  
GREATER ANETH FIELD  
SAN JUAN COUNTY, UTAH

SE 1/4 SEC. 32, T40S, R25E  
WATER RATE: 500 BWPD  
CO2 RATE: 1000 MCFPD



## **APPENDIX B- REPORTING FORMS**

- 1. EPA Form 7520-7: Application to Transfer Permit**
- 2. EPA Form 7520-10: Completion Report**
- 3. EPA Form 7520-11: Injection Well Monitoring Report**
- 4. EPA Form 7520-13: Plugging Record**



# APPLICATION TO TRANSFER PERMIT

NAME AND ADDRESS OF EXISTING PERMITTEE

NAME AND ADDRESS OF SURFACE OWNER

LOCATE WELL AND OUTLINE UNIT ON  
SECTION PLAT — 640 ACRES

STATE COUNTY

PERMIT NUMBER

SURFACE LOCATION DESCRIPTION

1/4 OF

1/4 OF

1/4 SECTION

TOWNSHIP

RANGE

LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT

Surface  
Lessen \_\_\_\_\_ ft. from (N/S) \_\_\_\_\_ Line of quarter section

and \_\_\_\_\_ ft. from (E/W) \_\_\_\_\_ Line of quarter section

WELL ACTIVITY

WELL STATUS

TYPE OF PERMIT

- ☐ Class I  
☐ Class II  
☐ Brine Disposal  
☐ Enhanced Recovery  
☐ Hydrocarbon Storage  
☐ Class III  
☐ Other

- ☐ Operating  
☐ Modification/Conversion  
☐ Proposed

- ☐ Individual  
☐ Area  
Number of Wells \_\_\_\_\_

Lease Name

Well Number

NAME(S) AND ADDRESS(ES) OF NEW OWNER(S)

NAME AND ADDRESS OF NEW OPERATOR

Attach to this application a written agreement between the existing and new permittee containing a specific date for transfer of permit responsibility, coverage, and liability between them.

The new permittee must show evidence of financial responsibility by the submission of surety bond, or other adequate assurance, such as financial statements or other materials acceptable to the director.

## CERTIFICATION

*I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)*

NAME AND OFFICIAL TITLE (Please type or print)

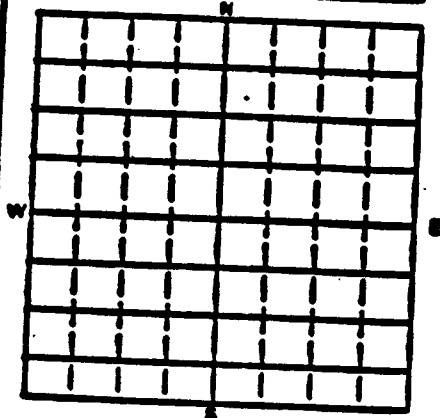
SIGNATURE

DATE SIGNED

COMPLETION REPORT FOR BRINE DISPOSAL,  
HYDROCARBON STORAGE, OR ENHANCED RECOVERY WELLForm Approved  
OMB No. 2040-0042  
Approval Expires 9-30-91

NAME AND ADDRESS OF HOSTING PERMITTEE

NAME AND ADDRESS OF SURFACE OWNER

LOCATE WELL AND OUTLINE UNIT ON  
SECTION PLAT — 640 ACRES

STATE COUNTY

PERMIT NUMBER

SURFACE LOCATION DESCRIPTION

1/4 OF

1/4 OF

1/4 SECTION

TOWNSHIP

RANGE

LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT

Surface  
Location \_\_\_\_\_ S. from (N/S) \_\_\_\_\_ Line of quarter section

and \_\_\_\_\_ E. from (E/W) \_\_\_\_\_ Line of quarter section

WELL ACTIVITY

TYPE OF PERMIT

☐ Brine Disposal☐ Individual☐ Enhanced Recovery☐ Area☐ Hydrocarbon Storage

Number of Wells \_\_\_\_\_

Estimated Fracture Pressure  
of Injection Zone

Anticipated Daily Injection Volume (Bbls)

Injection Interval

Average

Maximum

Feet

to Feet

Anticipated Daily Injection Pressure (PSI)

Depth to Bottom of Lowermost Freshwater Formation  
(Feet)

Average

Maximum

Type of Injection Fluid (Check the appropriate block(s))

☐ Salt Water☐ Brackish Water☐ Fresh Water☐ Liquid Hydrocarbon☐ Other

Lease Name

Well Number

Name of Injection Zone

Permeability of Injection Zone

Porosity of Injection Zone

## CASING AND TUBING

OO Size

W/T — Grade — New or Used

Depth

## CEMENT

Sacks

Class

## HOLE

Depth

BH Diameter

## INJECTION ZONE STIMULATION

Interval Treated

Materials and Amounts Used

## WIRE LINE LOGS. LIST EACH TYPE

Log Types

Logged Intervals

Complete Attachments A — E listed on the reverse.

## CERTIFICATION

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32).

NAME AND OFFICIAL TITLE (Please type or print)

DATE SIGNED

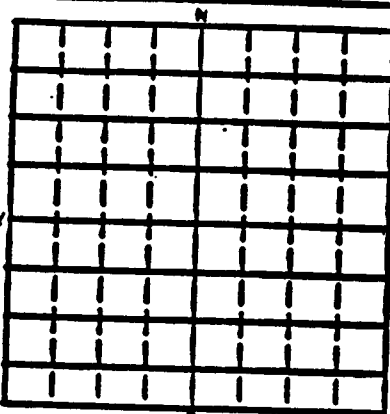


# ANNUAL DISPOSAL/INJECTION WELL MONITORING REPORT

NAME AND ADDRESS OF EXISTING PERMITTEE

NAME AND ADDRESS OF SURFACE OWNER

LOCATE WELL AND OUTLINE UNIT ON  
SECTION PLAT — 360 ACRES



STATE

COUNTY

PERMIT NUMBER

SURFACE LOCATION DESCRIPTION

1/4 OF

1/4 OF

1/4 SECTION

TOWNSHIP

RANGE

LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT

Surface

Location \_\_\_\_\_ ft. from (N/S) \_\_\_\_\_ Line of quarter section

and \_\_\_\_\_ ft. from (E/W) \_\_\_\_\_ Line of quarter section

WELL ACTIVITY

TYPE OF PERMIT

- ☐ Brine Disposal  
☐ Enhanced Recovery  
☐ Hydrocarbon Storage

- ☐ Individual  
☐ Area

Number of Wells \_\_\_\_\_

Lease Name

Well Number

INJECTION PRESSURE

TOTAL VOLUME INJECTED

TUBING — CASING ANNULUS PRESSURE  
(OPTIONAL MONITORING)

MONTH

YEAR

AVERAGE PSIG

MAXIMUM PSIG

BSL

MCF

MINIMUM PSIG

MAXIMUM PSIG

## CERTIFICATION

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32).

NAME AND OFFICIAL TITLE (Please type or print)

SIGNATURE

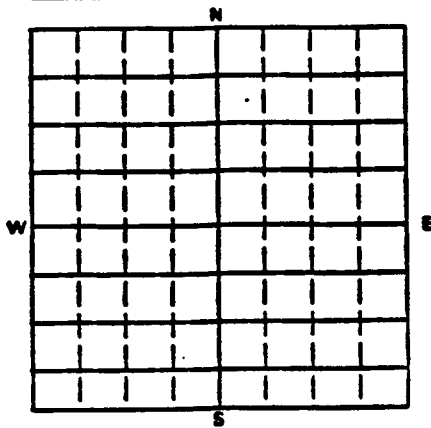
DATE SIGNED



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460  
**PLUGGING AND ABANDONMENT PLAN**

NAME AND ADDRESS OF FACILITY

NAME AND ADDRESS OF OWNER/OPERATOR

LOCATE WELL AND OUTLINE UNIT ON  
SECTION PLAT — 360 ACRES

STATE

COUNTY

PERMIT NUMBER

SURFACE LOCATION DESCRIPTION

1/4 OF

1/4 OF

1/4 SECTION

TOWNSHIP

RANGE

LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT

Surface

Location \_\_\_\_\_ ft. from (N/S) \_\_\_\_\_ Line of quarter section

and \_\_\_\_\_ ft. from (E/W) \_\_\_\_\_ Line of quarter section

TYPE OF AUTHORIZATION

- ☐ Individual Permit  
☐ Area Permit  
☐ Rul.

Number of Wells \_\_\_\_\_

Lease Name

WELL ACTIVITY

- ☐ CLASS I  
☐ CLASS II  
☐ Brine Disposal  
☐ Enhanced Recovery  
☐ Hydrocarbon Storage  
☐ CLASS III

Well Number

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT(LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☐ The Balance Method  
☐ The Dump Bailer Method  
☐ The Two-Plug Method  
☐ Other

CEMENTING TO PLUG AND ABANDON DATA:

PLUG #1

PLUG #2

PLUG #3

PLUG #4

PLUG #5

PLUG #6

PLUG #7

Size of Hole or Pipe in which Plug Will Be Placed (inches)

Depth to Bottom of Tubing or Drill Pipe (ft.)

Sacks of Cement To Be Used (each plug)

Slurry Volume To Be Pumped (cu. ft.)

Calculated Top of Plug (ft.)

Measured Top of Plug (if tagged ft.)

Slurry Wt. (Lb./Gal.)

Type Cement or Other Material (Class III)

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (If any)

From	To	From	To

Estimated Cost to Plug Wells

**CERTIFICATION**

*I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)*

NAME AND OFFICIAL TITLE (Please type or print)

SIGNATURE

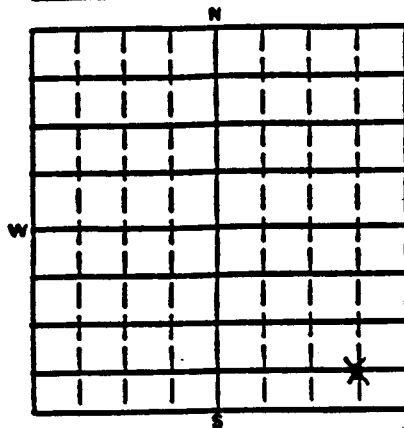
DATE SIGNED



## **APPENDIX C - PLUGGING PLAN**

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

## PLUGGING AND ABANDONMENT PLAN

NAME AND ADDRESS OF FACILITY  
MCELMO CREEK UNIT #Q-12ANAME AND ADDRESS OF OWNER/OPERATOR  
Mobil Oil Corporation  
P.O. Box 633  
Midland, TX 79702LOCATE WELL AND OUTLINE UNIT ON  
SECTION PLAT — 640 ACRES

STATE

Utah

COUNTY

San Juan

PERMIT NUMBER

SURFACE LOCATION DESCRIPTION

SE 1/4 OF SE 1/4 OF 1/4 SECTION 32 TOWNSHIP 40S RANGE 25E

LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT

Surface  
Location \_\_\_\_\_ ft. from (N/S) \_\_\_\_\_ Line of quarter section  
and \_\_\_\_\_ ft. from (E/W) \_\_\_\_\_ Line of quarter section

TYPE OF AUTHORIZATION

- ☒ Individual Permit  
☐ Area Permit  
☐ Rule

Number of Wells 1

WELL ACTIVITY

- ☐ CLASS I  
☐ CLASS II  
☐ Brine Disposal  
☒ Enhanced Recovery  
☐ Hydrocarbon Storage  
☐ CLASS III

Lease Name McElmo Creek Unit

Well Number Q-12A

## CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT(LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
13 3/8	48		400	17 1/4
9 5/8	32		1800	12 1/4
7	20		5800	8 3/4

## METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☒ The Balance Method  
☐ The Dump Bailer Method  
☐ The Two-Plug Method  
☒ Other  
 \* Squeeze thru retainer

## CEMENTING TO PLUG AND ABANDON DATA:

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	7	7	7	7	7	7	
Depth to Bottom of Tubing or Drill Pipe (ft.)	5400	5400	4300	3200	2100	1000	
Sacks of Cement To Be Used (each plug)	100	179	179	179	179	162	
Slurry Volume To Be Pumped (cu. ft.)	116	250	250	250	250	227	
Calculated Top of Plug (ft.)	5400	4300	3200	2100	1000	0	
Measured Top of Plug (If tagged ft.)							
Slurry Wt. (Lb./Gal.)	15.6	13.1	13.1	13.1	13.1	13.1	
Type Cement or Other Material (Class III)	B	50/50 Poz					

## LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (If any)

From	To	From	To
5450	5700		

Estimated Cost to Plug Wells

\$25,000

## CERTIFICATION

*I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)*

NAME AND OFFICIAL TITLE (Please type or print)

D.P. Klancher  
Environmental & Regulatory/LP Supervisor

SIGNATURE

DATE SIGNED

10/11/91



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IX

75 Hawthorne Street  
San Francisco, Ca. 94105-3901

Mail Code: W-1

JUL 1 1992

RECEIVED

JUL 06 1992

DIVISION OF  
OIL GAS & MINING

D. P. Klancher  
Mobil Exploration & Producing U.S. Inc.  
P.O. Box 633  
Midland, TX 79702

Re: McElmo Creek Unit #Q-12A, UIC Permit No. #NN292000003

Dear Ms. Klancher:

43-037-31677  
Sec. 22 T405, R25E

As we discussed, this letter authorizes a minor permit modification to the above-mentioned Class II injection well permit issued to Mobil Oil & Producing U.S. Inc.

The following items are hereby amended:

1. Part II. A. 1. Casing and Cementing - The second two sentences of this section should read: "The short surface casing will be cemented from surface to 80 feet KB. The short intermediate casing will be cemented to surface from 1600 feet KB, providing suitable protection through the top of the Chinle Formation (the base of the lowermost underground source of drinking water)."
2. The enclosed construction diagram supercedes the diagram previously included with the permit. The revised diagram reflects the changes noted above.

If you have any questions about this modification or about your permit, please call Nicole Moutoux, the project officer, at (415) 744-1833.

Sincerely,

*for Alex Stamps*  
Harry Seraydarian, Director  
Water Management Division

Enclosure

cc: John Phillips, Acting Area Manager  
Bureau of Land Management

✓ Gil Hunt, Program Manager of Class II  
Utah Board of Oil, Gas and Mining

Margie Dee, Right-of-Way Agent II  
Navajo Nation - Utah Lands Office

Jim Walker  
Navajo Nation EPA

Real Property Management Department  
Bureau of Indian Affairs

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

NAME OF COMPANY: MOBIL 43-037-31677

WELL NAME: McELMO CREEK UNIT Q 12A

Section 32 Township 40S Range 25E County SAN JUAN

Drilling Contractor ARAPHOE

Rig # 4

SPUDDED: Date 8/6/92

Time 1:00 AM

How ROTARY

Drilling will commence 8/6/92

Reported by GLENN GOODWIN-DOGM

Telephone #

Date 8/12/92 SIGNED TGG

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING  
DRILLING AND WELL PLUGGING INSPECTION FORM

COMPANY: Mobil Oil COMPANY MAN: Mike Marks  
WELL NAME: M/Elmo Crk. Unit Q12A API #: 43-037-31677  
QTR/QTR: \_\_\_\_\_ SECTION: \_\_\_\_\_ TWP: \_\_\_\_\_ RANGE: \_\_\_\_\_  
CONTRACTOR: Arapahoe #4 PUSHER/DRLR: Tom Schrum  
INSPECTOR: Blenn DATE: 8/11/92 OPERATIONS: drilling  
SPUD DATE: 8/16/92 TOTAL DEPTH: 2300'

DRILLING AND COMPLETIONS

\_\_\_\_ APD      X WELL SIGN      X BOPE      X RESERVE PIT  
X FLARE PIT      X BURN PIT      X H2S      X BLOOE LINE  
X SANITATION      X HOUSEKEEPING      \_\_\_\_\_ VENTED/FLARED

PLUGGING AND ABANDONMENT

PRODUCING FM(S): \_\_\_\_\_

PLUGS:      TYPE/SIZE      INTERVAL

_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

PERFORATIONS: \_\_\_\_\_

CASING SIZE: \_\_\_\_\_ PULLED: YES / NO      CUT AT: \_\_\_\_\_

PLUGS TESTED: \_\_\_\_\_ HOW: \_\_\_\_\_ WOC: \_\_\_\_\_

MARKER: \_\_\_\_\_ SURFACE: \_\_\_\_\_ PLATE: \_\_\_\_\_

RECLAMATION:

CONTOURED: \_\_\_\_\_ RIPPED: \_\_\_\_\_ REHAB'D: \_\_\_\_\_

LEGEND: (Y)-YES      (P)-PROBLEM      (U)-UNKNOWN      (BLANK)-NOT APPLICABLE

REMARKS: Drilling @ 2300'  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## ENTITY ACTION FORM - FORM 6

OPERATOR MOBIL OIL CORPORATION

OPERATOR ACCT. NO. N 3790

ADDRESS P O BOX 633  
MIDLAND, TX 79702

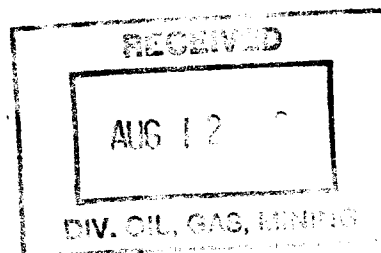
ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
B	99999	5980	43-037-31677	McElmo Creek Unit #Q-12A		32	40S	25E	San Juan	8-6-92	8-6-92
WELL 1 COMMENTS: This well is a new injection well being drilled in the McElmo Creek Unit. Entity added 8-18-92. <i>fe</i>											
WELL 2 COMMENTS:											
WELL 3 COMMENTS:											
WELL 4 COMMENTS:											
WELL 5 COMMENTS:											

## ACTION CODES (See instructions on back of form)

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected.

(3/89)

Signature *Shuley J. J. J.*Env. & Reg. Tech  
Title8-10-92  
Date

Phone No. (915) 688-2585

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

5. Lease Designation and Serial No.  
14-20-603-372

6. If Indian, Allottee or Tribe Name  
NAVAJO TRIBAL

7. If Unit or CA, Agreement Designation  
MCELMO CREEK UNIT

8. Well Name and No.  
Q-12A

9. API Well No.  
43-037-31677

10. Field and Pool, or Exploratory Area  
GREATER ANETH

11. County or Parish, State  
SAN JUAN, UT

**SUBMIT IN TRIPLICATE**

1. Type of Well  
☐ Oil Well ☐ Gas Well ☒ Other INJECTION WELL

2. Name of Operator  
MOBIL OIL CORPORATION

3. Address and Telephone No.  
P O BOX 633 MIDLAND, TX 79702 (915) 688-2585

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
SEC. 32, T40S, R25E 368' FSL, 917' FEL

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent  
☒ Subsequent Report  
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☐ Other SPUD & SET 13 3/8 CSG  
☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☐ Conversion to Injection  
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*  
8-6-92 MIRU ARAPAHOE RIG. SPUD 17 1/2 IN. HOLE. RIH W/ 13 3/8 IN. 48# H40 ST&C CSG DEPTH @ 86'. + 2  
CENTRALIZERS. CMT'D W/200 SXS CLASS 'G' CACL (1.15, 15.8#) CIRC. 55 SXS CMT.  
NOTIFIED JOE RUYBALAID W/BLM TO SET CONDUCTOR PIPE. JOB WAS NOT WITNESSED.

RECEIVED

AUG 12 1992

ENV. OIL, GAS, MINING

14. I hereby certify that the foregoing is true and correct

Signed Shirley Todd SHIRLEY TODD Title ENV. & REG. TECHNICIAN

Date 8-10-92

(This space for Federal or State office use)

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_  
Conditions of approval, if any:



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

5. Lease Designation and Serial No.  
14-20-603-372

6. If Indian, Allottee or Tribe Name  
NAVAJO TRIBAL

7. If Unit or CA, Agreement Designation  
MCELMO CREEK UNIT

8. Well Name and No.  
Q-12A

9. API Well No.  
43-037-31677

10. Field and Pool, or Exploratory Area  
GREATER ANETH

11. County or Parish, State  
SAN JUAN, UT

**SUBMIT IN TRIPLICATE**

1. Type of Well  
☐ Oil Well ☐ Gas Well ☒ Other INJECTION WELL

2. Name of Operator  
MOBIL OIL CORPORATION

3. Address and Telephone No.  
P O BOX 633 MIDLAND, TX 79702 (915) 688-2585

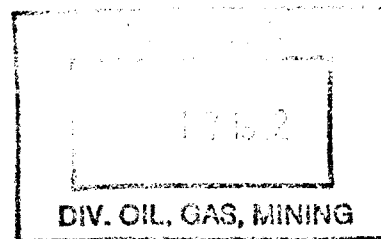
4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
SEC. 32, T40S, R25E 368' FSL, 917' FEL

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment	<input type="checkbox"/> Change of Plans
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion	<input checked="" type="checkbox"/> New Construction
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Other _____	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*  
8-9-92 DRILL HOLE SIZE 12 1/4. RIH W/9 5/8 36# K55 STC CSG W/14 CENT. DEPTH 1600' CMT. LEAD W/400 SXS CL 'G' 65/35 POZ + 6% GEL. + 2% CACL2. 12.4, 1.84, 131 BBLS). TAIL 350 SXS CL 'G' + 2% CACL2 (15.8, 1.15, 2 BBLS. CIRC 214 SXS. CMT FELL BACK 37'. TAGGED W/1 TBG. RECEIVED PERMISSION FROM LARRY PIXLY/ BLM TO TOP OFF CSG. W/50 SXS CL 'G' +2% CACL2 CMT. CIRC GOOD CMT TO SURF.



14. I hereby certify that the foregoing is true and correct

Signed Shuley Doad Title Env. & Reg. Tech Date 8-11-92  
(This space for Federal or State office use)

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_  
Conditions of approval, if any:

ARAPAHOE DRILLING CO., INC.

P. O. BOX 26687

ALBUQUERQUE, NEW MEXICO 87125

STEVE SCHALK  
PRESIDENT

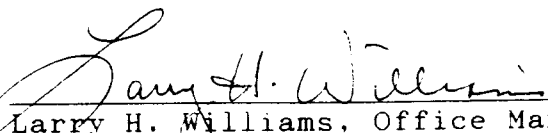
September 4, 1992

DEVIATION REPORT

Mobil Exploration  
McElmo Creek Unit Q12A  
San Juan County, UT

Date	Depth	Deviation
08-07-92	320'	1/2°
	657'	3/4°
08-08-92	1552'	1°
08-11-92	1900'	1/2°
	2274'	1/2°
	2526'	1/2°
08-13-92	3001'	1/2°
08-16-92	3602'	1/2°
08-18-92	4190'	3/4°
08-19-92	4408'	3/4°
08-21-92	4930'	3/4°
	5013'	1/2°
08-25-92	5750'	3/4°

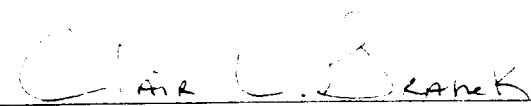
I CERTIFY THE ABOVE TO BE TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF.

  
Larry H. Williams, Office Manager

9/4/92  
Date

SWORN AND subscribed to this 4th day of September, 1992, by Larry H. Williams, known to me to be the Office Manager of Arapahoe Drilling Co., Inc.

My Commission Expires: June 7, 1993

  
Clair L. Granek, Notary Public

SEP 8 1992

RESULT OF WATER ANALYSES

TO: Mr. Jim Vanderhill  
P. O. Box 633, Midland, TX 79702

LABORATORY NO. 89284  
SAMPLE RECEIVED 8-10-92  
RESULTS REPORTED 8-17-92

COMPANY MEPUS LEASE McElmo Creek "Q" #12A  
FIELD OR POOL Greater Aneth  
SECTION BLOCK SURVEY COUNTY San Juan STATE UT

SOURCE OF SAMPLE AND DATE TAKEN:

- NO. 1 Recovered water - taken from McElmo Creek "Q" #12A @ 905'. 8-8-92  
NO. 2 Recovered water - taken from McElmo Creek "Q" #12A @ 1,312'. 8-8-92  
NO. 3 Maximum contents for drinking water as recommended by the Environmental Protection Agency  
NO. 4

REMARKS:

CHEMICAL AND PHYSICAL PROPERTIES				
	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F	1.0064	1.0062		
pH When Sampled				
pH When Received	7.43	7.48		
Bicarbonate as HCO <sub>3</sub>	824	1,171		
Supersaturation as CaCO <sub>3</sub>				
Undersaturation as CaCO <sub>3</sub>				
Total Hardness as CaCO <sub>3</sub>	101	63		
Calcium as Ca	38	24		
Magnesium as Mg	1	1		
Sodium and/or Potassium	944	1,107		
Sulfate as SO <sub>4</sub>	834	796	125	
Chloride as Cl	433	483	125	
Iron as Fe	0.90	0.90	0.3	
Barium as Ba				
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	3,074	3,581	500	
Temperature °F				
Carbon Dioxide, Calculated				
Dissolved Oxygen				
Hydrogen Sulfide	0.0	0.0		
Resistivity, ohms/cm at 77° F	2.53	2.31		
Suspended Oil				
Filtrable Solids as mg/l				
Volume Filtered, ml				
Nitrate, as N	0.5	0.5	10.0	

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks Based on the determinations performed herein, we find both of these waters exceed Environmental Protection Agency standards in the levels of sulfate, chloride, iron, and total solids. We also note that the waters are abnormally high in sodium and bicarbonate contents. It should be clarified that iron is a variable component and especially when water is being recovered. Contact us if we can be of any assistance in the interpretations of these results for your particular objective.

P.O. BOX 1468  
MONAHANS, TEXAS 79756  
PH. 943-3234 or 563-1040

Martin Water Laboratories, Inc.  
WATER CONSULTANTS SINCE 1953  
BACTERIAL AND CHEMICAL ANALYSES

709 W. INDIANA  
MIDLAND, TEXAS 79701  
PHONE 683-4521

To: Mr. Jim Vanderhill  
P. O. Box 633  
Midland, TX 79702

Laboratory No. B89225  
Sample received 8-10-92  
Results reported 8-17-92

Company: NEPUS  
County: San Juan, Utah  
Field: Greater Aneth  
Lease: McElmo Creek "Q" #12A

Subject: To determine the presence or absence of coliform bacteria.

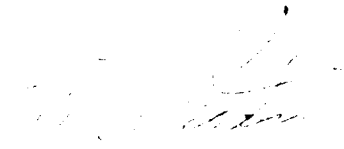
Method: Recommended by the American Public Health Association as follows:  
Each of five tubes of multiple strength lactose broth inoculated with 10 ml of the sample for the presumptive test. If any tubes are positive, they are in turn inoculated into brilliant green lactose bile broth for confirmative tests.

Source of sample and date taken:

- #1. Recovered water - taken from McElmo Creek "Q" #12A @ 905'. 8-8-92  
#2. Recovered water - taken from McElmo Creek "Q" #12A @ 1,312'. 8-8-92

	#1		#2	
	Number of Positive Tubes		Number of Positive Tubes	
Incubation period . . . . .	24 hours	48 hours	24 hours	48 hours
Presumptive test . . . . .	0	2	0	1
Confirmed test . . . . .	2	2	1	1
Fecal Coliform test . . . . .	0	0	0	0

Remarks: Based on the determinations performed above, these waters are not indicated to be satisfactory for human consumption.

  
Waylan C. Martin, M.A.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SEP 14 1992

DIVISION OF  
OIL, GAS & MINING

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

**SUBMIT IN TRIPLICATE**

1. Type of Well

☐ Oil Well ☐ Gas Well ☒ Other

INJECTION WELL

2. Name of Operator

MOBIL OIL CORPORATION

3. Address and Telephone No.

P.O. BOX 633, MIDLAND, TX 79702

(915)688-2585

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

SEC. 32, T40S, R25E, 368' FSL, 917' FEL

5. Lease Designation and Serial No.

14-20-603-372

6. If Indian, Allottee or Tribe Name

NAVAJO TRIBAL

7. If Unit or CA, Agreement Designation

MCELMO CREEK UNIT

8. Well Name and No.

Q-12A

9. API Well No.

43-037-31677

10. Field and Pool, or Exploratory Area

GREATER ANETH

11. County or Parish, State

SAN JUAN, UT

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent  
☒ Subsequent Report  
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☐ Other 7" PROD. CSG

- ☐ Change of Plans  
☒ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☐ Conversion to Injection  
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

- 8-29-92 RIH W/7 CSG 23# K-55 LT&C RUN 19 CENTRALIZERS. 1ST STAGE 300 SKS LEAD & 142 SKS TAIL WHICH BECAME CONTAMINATED IN THE LATEX & SILICAFUME MIX WTR TANK W/DRLG MUD. THE 7" PROD. CSG WAS RUN IN 8 3/4" HOLE TO 5722'. A 300 SX (552 CU. FT.) CL. "G" POZ MIX, LEAD SLURRY WAS PUMPED DOWN THE CSG FOLLOWED BY A CL "G" CMT TAIL. AFTER 142 SKS (163 CU FT.) OF THE TAIL SLURRY HAD BEEN PUMPED, DRILLING MUD CONTAMINATION WAS DISCOVERED IN THE CMT. MIX WTR. CEMENTING WAS IMMEDIATELY ABORTED & MUD PUMPED IN ORDER TO CIRC. THE LEAD & TAIL SLURRIES OUT OF THE HOLE. MUD VOL. FOR CIRC WERE INSUFFICIENT & CIRC. WAS STOPPED. WHEN VOLUMES WERE RESTORED CIRCULATION WAS NOT POSSIBLE DUE TO HIGH SURFACE PRESSURE (3500psi). WHILE RECIPROCATING THE CASING, THE CASING STUCK 25' FROM TD AT 5772'(TD). LATER, THE DV TOOL WAS OPENED & CIRCULATION WAS ATTEMPTED FROM THE DV TOOL @ 2736' TO SURF. A SURF. PRESSURE OF 2500 PSI WAS SEEN W/NO CIRC.
- 9-01-92 CONTACTED NICHOLE MOUTOUX & GEROGE ROBIN/EPA TO APPROVE RECOMMENDATION PROCEDURE.
- 9-02-92 SET CMT RET @5738'. NINE FT. ABOVE FLOAT SHOE @ 5747'. PRESS. TEST TBG. TO 3000 PSI. ATTEMPT TO ESTABLISH INJECTION RATE. PRESSURED UP TO 2600PSI. NO PRESS. OBSERVED IN 9 5/8" X 7" ANNULUS.
- 9-03-92 SPOT 10 SKS CL "G" ON TOP OF RET. POH 20' & REVERSE OUT. POH & P/u PKR & ISOLATE LEAK. LEAK FOUND @ DV TOOL 2736. ESTABLISHED INJ RATE W/WTR 374 BPM @ 2400 PSI. POH W/PKR. & RIH W/OETBG TO 2766' (30' BELOW DV TOOL). PUMP 50 SKS CL "G" + 0.4% D156 +0.2% D46 (15.6 PPG/10.5 BBLs SLURRY). SQZ DV TOOL W/4.5 BBLs SLURRY @ 1 BPM, FINAL SQZ PRESS. 2450 PSI. PRESS. FELL TO 910 PSI IN 30 MIN. SQZ 1 ADDITIONAL BBL OF SLURRY FOR A FINAL STANDING SQZ PRESS. OF 1800 PSI. ESTIMATED CMT TOP @

14. I hereby certify that the foregoing is true and correct 2640'. NO PRESS. OBSERVED IN 9 5/8" X 7" ANNULUS DURING THE SQUEEZE.

Signed Shirley Todd SHIRLEY TODD

Title ENV. & REG. TECHNICIAN

Date 9-10-92

(This space for Federal or State office use)

Approved by \_\_\_\_\_  
Conditions of approval, if any:

Title \_\_\_\_\_

Date \_\_\_\_\_

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLI

Form approved.  
Budget Bureau No. 1004-0137  
Expires August 31, 1985

WELL COMPLETION OR RECOMPLETION REPORT AND LOG \*

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ DRY ☐ Other INJECTION WELL

b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP EN ☐ PLUG BACK ☐ DIFF. RESSUR ☐ Other ☐

2. NAME OF OPERATOR  
MOBIL OIL CORPORATION

3. ADDRESS OF OPERATOR  
P O BOX 633 MIDLAND, TX 79702 (915) 688-2585

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)  
At surface 368' FSL, 917 FEL  
At top prod. interval reported below  
SAME  
At total depth  
SAME

14. PERMIT NO. 43-037-31677 DATE ISSUED 4-17-92

15. DATE STUDDED 8-6-92 16. DATE T.D. REACHED 8-29-92 17. DATE COMPL. (Ready to prod.) 9-17-92 18. ELEVATIONS (DF, RKB, RT, GB, ETC.)\* GL - 4731

20. TOTAL DEPTH, MD & TVD 5772 21. PLUG, BACK T.D., MD & TVD 5718 22. IF MULTIPLE COMPL. HOW MANY\* 23. INTERVALS DRILLED BY X ROTARY TOOLS CABLE TOOLS

24. PRODUCING INTERVAL(S) OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\*  
5506 - 5532 DESERT CREEK

25. WAS DIRECTIONAL SURVEY MADE NO

26. TYPE ELECTRIC AND OTHER LOGS RUN REPEAT FORMATION TESTER  
DDL/MSFL/CNL/LDT/GR/DIL/LDT-CNF/DIGITAL SONIC/MSCT/CBL 9-16-92

27. WAS WELL CORRED NO

29. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB/FT	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13 3/8	48#	86	17 1/2	200sx CI "G"	NONE
9 5/8	36#	1600	12 1/4	750sx CI "G"	NONE
7	23#	5747	8 3/4	442sx CI "G"	NONE
DV Tool @ 2736' (30' cmt. below DV Tool) 50sx CI "G"					

29. LINER RECORD 30. TUBING RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2 7/8		5474

31. PERFORATION RECORD (Interval, size and number)  
5506 - 5532 (102 Holes) Perf 4/JSFT

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5738	Set cmt. ret. Spot 10 sx CI "G"
2736	Pump 50sx CI "G", 30' below DV Tool
	Sqz 5.5 bbls of slurry into formation
5506 - 5532	Acidz w/2650 gals 15% NEEF HCl Acid

33.\* PRODUCTION (See Attachment)

DATE FIRST PRODUCTION PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) WELL STATUS (Producing or shut-in)

DATE OF TEST HOURS TESTED CHOKE SIZE PROD'N. FOR TEST PERIOD OIL—BBL. GAS—MCF WATER—BBL. GAS-OIL RATIO

FLOW, TUBING PRESS. CASING PRESSURE CALCULATED 24-HOUR RATE OIL—BBL. GAS—MCF WATER—BBL. OIL GRAVITY-API (CORR.)

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) TEST WITNESSED BY

35. LIST OF ATTACHMENTS

Deviation, Water Analysis

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED Shuley Jada

TITLE Env. & Reg. Technician

DATE 10-9-92

\*(See Instructions and Spaces for Additional Data on Reverse Side)

Title 16 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

MCELMO CREEK UNIT #Q-12A

#32.

5410

Sqz. cmt retainer

5506-5532

Sqz 7" csg thru sqz holes w/365 sx CL "G" (70 bbls of 16.1#/Gal. Slurry) No Sqz. Sqz'd 7" csg thru sqz holes w/100 sx CL "G" (26 bbls of 14.6#/gal. slurry) Tailed w/100 sx's CL "G" (22bbls of 15.8# slurry). Drill cmt ret. & cmt to 5532'

5506-5532

Perf Desert Creek w/4SPF.



# State of Utah

DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

Norman H. Bangerter  
Governor

Dee C. Hansen  
Executive Director

Dianne R. Nielson, Ph.D.  
Division Director

355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203  
801-538-5340

November 3, 1992

Ms. Shirley Todd  
Mobil Oil Corporation  
P. O. Box 633  
Midland, Texas 79702

Dear Ms. Todd:

405 258 32 (DRL)

Re: Mc Elmo Creek Unit Q-12A, API No. 43-037-31677  
Submittal of Electric and Radioactivity Logs

We have received the Dual Induction - SFL with Linear Correlation Log, Repeat Formation Tester and Simultaneous Compensated Neutron - Litho-Density Log for the referenced well. However, the Well Completion Report indicates that a DDL, MSFL, GR, LDT-CNF, Digital Sonic, MSCT and CBL were also run. Please submit a copy of these logs to this office as soon as possible.

Your help in this matter will be greatly appreciated. If you have questions regarding this request, please contact me at (801) 538-5340.

Sincerely,

*Vicky Carney*

Vicky Carney  
Production Group Supervisor

11-17,1992

cc: R. J. Firth  
D. T. Staley  
L. D. Clement  
Log File

Enclosed are the logs you have requested. Some of the logs listed above are just duplicates of what has been sent.

*Shirley Todd*



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.

**SUBMIT IN TRIPLICATE**

**RECEIVED**

1. Type of Well  
☐ Oil Well ☐ Gas Well ☒ Other **INJECTION WELL**

**APR 12 1993**

2. Name of Operator  
**MOBIL OIL CORPORATION**

**DIVISION OF**

3. Address and Telephone No.  
**P O BOX 633 MIDLAND, TX 79702**

**Oil, Gas & Mining  
(915) 688-2585**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
**368' FSL, 917 FEL SEC.32, T40S, R25E**

5. Lease Designation and Serial No.  
**14-20-603-372**

6. If Indian, Allottee or Tribe Name  
**NAVAJO TRIBAL**

7. If Unit or CA, Agreement Designation  
**MCELMO CREEK UNIT**

8. Well Name and No.  
**Q-12A**

9. API Well No.  
**43-037-31677**

10. Field and Pool, or Exploratory Area  
**GREATER ANETH**

11. County or Parish, State  
**SAN JUAN UT**

**12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment	<input type="checkbox"/> Change of Plans
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Other <b>WORKOVER</b>	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

2-15-93 MIRU WIRELINE RIH W/1.96 GAUGE RING. FOUND TIGHT SPOTS. POHW/GAUGE. SET PLUG IN SEAT NIPPLE. BLED DOWN TBG TO 0#. PRESS TESTED TBG TO 2000#/15 MIN. PRESS DECREASED TO 1850# DUE TO TRAPPED AIR & CO2. CIRC 1300#. SITP DROPPED TO 1750# DUE TO EXPANSION & TEMP. CHANGE.

2-16-93 NU BOP. ATTEMPT TO UNSET PKR.

2-17-93 CONTINUED TO ATTEMPT RELEASING PKR. NO SUCCESS.

2-18-93 RIH W/FREEPOINT TOOL. STUCK BETWEEN 4048-4061. RIH W/JET CUTTER TO 4207. NO RESPONSE. RIH TO 4233 ( 6 1/2 JTS BELOW TOP OF STUCK JOINT.

2-19-93 CIRC. HOLE W/175 BBLS .10# BR. TBG DEAD. RIH W/1.71 MAGNA PLUG. UNABLE TO GET PAST 4031' RIH W/ 1.75 GR. & JAR ASS. TO CUT SPOT @ 4233'. RIH W/1.71 MAGNA PLUG ATTEMPT TO SET PLUG @ 4230'

2-20-93 RIH W/PLUG. DUMP 12' CMT ON TOP OF PLUG.

2-21-93 POH W/128 JTS CL TBG. TEST STACK W/600# WILL PRESS. OK

2-22-93 TAGGED TOP OF FISH W/18'.

2-23-93 RIH W/CSG SWEDGE. TAG COLLAPSED CSG @ 4040; SWEDGE OUT CSG TO 4070 BEFORE FALLING FREE.

2-24-93 SIH W/CSG SWEDGE. SWEDGE OUT CSG 4040-4070. RIH TO 4218 TO CHECK CSG. CIRC HOLE W/10# BRINE WTR.

2-25-93 SIH W/SWEDGE. SWEDGE OUT CSG 4040-4070. POH SIH W/SWEDGE. SWEDGE CSG OUT & RUN THRU TIGHT SPOT SEVERAL TIMES.

2-26-93 RAN SWEDGE THRU 4040-70. RIH W/OVERSHOT. START PULLING PKR.

2-27-93 TAGGED TOP OF PKR @4624' RECOVERED PKR W/PACKING ELEMENTS GONE.

CONTINUED ON ATTACHMENT.

14. I hereby certify that the foregoing is true and correct

Signed Shirley Todd **SHIRLEY TODD**

Title ENGINEERING TECHNICIAN

Date 4-8-93

(This space for Federal or State office use)

Approved by \_\_\_\_\_  
Conditions of approval, if any:

Title \_\_\_\_\_

Date \_\_\_\_\_

MCELMO CREEK UNIT # Q-12A

- #13. 3-1-93 TIH W/RET BP. SET @ 5490'. CIRC. HOLE W/10# BRINE TO CLEAR HOLE OF CO2.
- 3-03-93 RUN THRU INTERVAL 5477-2500' LOG INDICATES SPLIT CSG 4030' - 4056. NO CMT BEHIND PIPE. LOAD CSG W/10# BRINE WTR. RETRIEVE BPL
- 3-04-93 TIH W/7" CMT RET. SET @ 5367'. PUMP DOWN TBG INTO PERFS 5506-32. ESTABLISHED CIR BEHIND 7" CSG TO SPLIT IN CSG @ 4030-56.
- 3-09-93 CMT THRU CMT RET @ 5490' & OUT SPLIT IN CSG @ 4030' w/97 SXS. CL G CMT + .4%P156 + .15% D65. CIRC CLEAN W/50 BBLs. 10# BR. SPOT 31 SXS CL G CMT + .4% P156 .15% D65/ CIRC. CLEAN. SQZ OUT 3 BBLs CMT FINAL PRESS 1450#.
- 3-10-93 RIH W/BIT. TAG TIGHT CSG @ 4030'. DRILL FROM 4048-4052. RIH W/4052'. DRILL 1/2 to 4052-52 CIRC. CLEAN.
- 3-11-93 RURUN BIT DRILL FROM 4052-4064. RECOVER RETURNS. RIH WO 4064. DRILL FROM 4064-4076 CIR. CLEAN
- 3-12-93 RUN CCL LOG FROM 4078. BAD CSG FROM 4030'-4056. RUN BIT & DRILL FROM 4078'-4105. CIRC. HOLE CLEAN.
- 3-15-93 ROH W/ BIT & WORKSTRING DRESS SECTION OF CASING. WORKED STRING MILL THROUGH ROUGH PIPE DRESSING OFF ROUGH SPOTS TO 4096 W/STRING MILL @ 4066. (10' BELOW BTM OF ORININAL CSG SPLIT). CSG STILL ROUGH. PUSHED NOTCHED COLLAR DOWN TO 4110 W/STRING MILL @ 4080. CIRC HOLE CLEAN. PUH W/ STRING MILL @ 4066' (APPROX. 9' ABOVE BTM COLLAR OF SPLIT. CIRC. HOLE CLEAN.
- 3-16-93 RIH W/TBG & DRESS ROUGH SPOTS IN CSG TO 4084'. TAGGED @ 5284' (206 ABOVE CMT RET. @ 5490) DRESS ROUGH SPOT @ 4075. CIRC. HOLE CLEAN.
- 3-17-93 RIH W/7" CIBP & CCL TOOL. SET TOOL @ 4178'. RIH W/137 JTS 2 7/8 N-80 WORKSTRING. TAGGED CIBP @ 4178. CIRCULATED HOLE CLEAN. MIX 50SX (10.3 BBLs) OF CLASS G + .4% D-156 + .15% D-65 @ 2 BPM. SPOTTED A BALANCED PLUG F/3910 - 4172. REVERSE CIRC HOLE CLEAN W/A TOTAL OF 30 BBLs OF FW. CIRC OUT 1 BBL OF CMT & CONTINUED CIRC W/8 ADD. BBLs OF FW. SI TBG & PUMPED DWN CSG PRESS TO 1250#. PLACED 1 BBL OF CMT INTO FORM.
- 3-18-93 TAG CMT. @ 4050. RIH W/BIT. DRILL OUT 4' OF CMT TO 4054. PRESS TEST TO 1300 PSI. PRESS. BLED OFF TO 1070#/30 MIN. POH. PUMP 50 SXS (10.3 BBLs) OF CL G + .4% D-156 + .15% D-65 + 3% CACL @ 2.5 BPM. DISPLACE W/21.5 BBLs OF FW. SPOTTED A BALANCED PLUG F/ 3791-4050. SQZD AWAY 1 BBL OF CMT AT A PRESS OF 1370#.
- 3-19-93 TAGGED TPC @ 3797/ DRILL OUT CMT F/3797-4109. HOLE CLEANED UP. PRESS TESTED CSG TO 1100#. PRESS LEAKED OFF TO 930#/40min.
- 3-21-93 DRILL OUT CMT F/4109-4178. DRILLED UP TOP SLIPS OF CIBP
- 3-22-93 DRILL CIBP 4178. CLEAN OUT TO 5344. RIH W/PKR. SET@ 3984'. TEST CSG 3984' SURF TO 1000 PSI/30 MIN.
- 3-23-93 PKR STOPPED @ 4045'. (CSG SPLIT 4030'-56'). ATTEMPT TO WORK THRU W?NO SUCCESS.
- 3-24-93 TIH STRING MILL OF WS. TAGGED @ 4030. MILL/DRESS CSG SPLIT 4030-4041.
- 3-25-93 MILL/DRESS CSG SPLIT 4041-56. TIH W/PKR. SET @ 4095. TEST CSG 4095-5344 TO 1000#/30 min.
- 3-28-93 CO CMT RET @ 5367' CLEAN OUT TO 5388' CIRC. CLEAN.
- 3-29-93 DRILL OUT CMT 5388 - 5540. FREE TO 5666. DRILL OUT CONTAMINATED CMT TO PBTD @ 5718. CIRC WELL W/CLEAN 10# BRINE WTR.
- 3-30-93. PERF INTERVAL F/5506-5532 W/4' CSG GUN LOADED W/4 SPF
- 3-31-93 SET PKR @ 5393'
- 4-1-93 TEST INJ PKR TO 1500#/30 MIN./OK DISPLACE CSG & TBG W/INHIBITED PKR FLUID.
- 4-4-93 PRESS TEST ANN W/1000#/30MIN (LOST 60#) TEST AGAIN 30MIN/LOST 20#/OK. PRESS TEST ANN. TO 1200#/OK. RDMO.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION IX

75 Hawthorne Street  
San Francisco, Ca. 94105-3901

OCT 5 1993 W-6-2

RECEIVED

OCT 07 1993

DIVISION OF  
OIL, GAS & MINING

Gil Hunt  
Program Manager of Class II  
Utah Board of Oil, Gas and Mining  
355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180

Re: Authorization to Inject  
EcElmo Creek Unit #12A, GPC Permit No. #NN2920000003

Dear Mr. Hunt:

This is to inform you that Mobil Exploration and Producing U.S. Inc, has been given final authorization to commence injection into the McElmo Creek Unit #12A, located in the Aneth Field in San Juan County, Utah.

If you require additional information, or if you have any questions, please contact me at (415) 744-1835, or Milton Morales, GPC Environmental Engineer, at (415) 744-1832.

Sincerely,

A handwritten signature in cursive script that reads "Doris Betuel".

Doris Betuel, Acting Chief  
Groundwater Pollution Control Section

Division of Oil, Gas and Mining  
**PHONE CONVERSATION DOCUMENTATION FORM**

Route original/copy to:

☒ **Well File** McElmo Creek U Q-12A

☐ **Suspense**  
(Return Date) \_\_\_\_\_  
(To - Initials) \_\_\_\_\_

☒ **Other**  
Open Change

(Location) Sec 32 Twp 40S Rng 25E  
(API No.) 43-037-31677

1. Date of Phone Call: 3-29-94 Time: 8:50

2. DOGM Employee (name) L. Cordova (Initiated Call ☒  
Talked to:

Name Shirley Todd (Initiated Call ☐ - Phone No. (915) 688-2585  
of (Company/Organization) Mobil Oil Corp.

3. Topic of Conversation: McElmo Creek Unit (Mobil Oil Co. or MEPNA?)

The Q-12A well permitted under Mobil Oil Corp. N3790, all other wells within  
the McElmo Creek Unit & Rutherford Unit under MEPNA N7370.

4. Highlights of Conversation:

McElmo Creek Unit - To MEPNA 4-24-86 (see attached letter)

\* Btm/BIA still recognizes Mobil Oil Co. as unit operator, referred to Btm/BIA.

Rutherford Unit - From Phillips Petro. to Mobil Explor. & Prod. N. Amer. (MEPNA) 7/93.

\* Btm/BIA recognize MEPNA as unit operator.

White Mesa Unit - From Mobil Oil Co. to U.S. Oil & Gas 10/92. (per Admin.)

\* Btm/BIA still recognize mobil Oil Co. as unit operator, however chg.  
in progress per Shirley Todd.

\* All wells should be listed under MEPNA/N7370 c/o Mobil Oil Corp. "Agent".  
(Future reports submitted by mobil will reflect)  
\* Both accounts being updated. mobil as agent for MEPNA.  
\* Mike Hebertson, Permitting - Notified.

03/29/94                      D E T A I L   W E L L   D A T A                      menu: opt 00

api num:    4303731677            prod zone: DSCR                      sec    twnshp    range    qr-qr

entity:      5980    : MCELMO CREEK UNIT                      32    40.0 S    25.0 E    SESE

well name: MCELMO CREEK Q-12A

operator:    N7370    : M E P N A                                      meridian: S

field:        365        : GREATER ANETH

confidential flag:            confidential expires:                      alt addr flag:

                    \* \* \* application to drill, deepen, or plug back \* \* \*

lease number:    INDIAN                      lease type: 2                      well type:            OT

surface loc:     0368 FSL 0917 FEL            unit name:    MCELMO CREEK

prod zone loc: 0368 FSL 0917 FEL            depth:        5900            proposed zone: DSCR

elevation:       4731' GR                      apd date:     920401            auth code:    R649-2-3

\* \* completion information \* \*            date recd:    921013            la/pa date:

spud date:       920806                      compl date: 920917            total depth: 5772'

producing intervals: 5506-32'

bottom hole:    0368 FSL 0917 FEL            first prod:                      well status:        WIW

24hr oil:        24hr gas:                      24hr water:                      gas/oil ratio:

                    \* \* well comments:                      api gravity:

(14-20-603-372):920818 ENTITY ADDED:921102 INT CONV WIW:10/93 COMM WIW PER

INJ RPTS:940329 OPER FR N3790/MOBIL OIL CORP EFF 4-1-92:

opt: 21 api: 4303731677 zone:                      date(yy-mm):                      enty                      acct:

*per inj. reports,  
began injection  
10/93*

*DTS 2-8-94*

Division of Oil, Gas and Mining  
**OPERATOR CHANGE WORKSHEET**

Routing:

1- <del>DEC</del> /GTL
2- <del>DEC</del> 57-SJ
3-VLC 8-FILE
4-RJF
5-LEE
6-PL

Attach all documentation received by the division regarding this change.  
 Initial each listed item when completed. Write N/A if item is not applicable.

- ☒ Change of Operator (well sold) ☐ Designation of Agent  
☐ Designation of Operator ☐ Operator Name Change Only

The operator of the well(s) listed below has changed (EFFECTIVE DATE: 4-1-92)

TO (new operator)	<u>M E P N A</u>	FROM (former operator)	<u>MOBIL OIL CORPORATION</u>
(address)	<u>PO DRAWER G</u>	(address)	<u>PO BOX 633</u>
	<u>CORTEZ CO 81321</u>		<u>MIDLAND TX 79702</u>
	<u>C/O MOBIL OIL CORP</u>		<u>SHIRLEY TODD</u>
	phone ( 303 ) <u>564-5212</u>		phone ( 915 ) <u>688-2585</u>
	account no. <u>N 7370</u>		account no. <u>N 3790</u>

Well(s) (attach additional page if needed):

**\*WIW/MCELMO CREEK UNIT**

Name:	<u>*MCELMO CREEK Q-12A/DSCR</u>	API:	<u>43-037-31677</u>	Entity:	<u>5980</u>	Sec	<u>32</u>	Twp	<u>40S</u>	Rng	<u>25E</u>	Lease Type:	<u>INDIAN</u>
Name:		API:		Entity:		Sec		Twp		Rng		Lease Type:	
Name:		API:		Entity:		Sec		Twp		Rng		Lease Type:	
Name:		API:		Entity:		Sec		Twp		Rng		Lease Type:	
Name:		API:		Entity:		Sec		Twp		Rng		Lease Type:	
Name:		API:		Entity:		Sec		Twp		Rng		Lease Type:	
Name:		API:		Entity:		Sec		Twp		Rng		Lease Type:	

**OPERATOR CHANGE DOCUMENTATION**

- \* 1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form). *(5-14-86 Letter) (3-29-94 Phone Dec.)*
- \* 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form). *(5-14-86 Letter) (3-29-94 Phone Dec.)*
- N/A 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is company registered with the state? (yes/no) \_\_\_\_ If yes, show company file number: \_\_\_\_.
- \* 4. (For Indian and Federal Wells ONLY) The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of **Federal and Indian** well operator changes should take place prior to completion of steps 5 through 9 below. *(3-29-94 Phone Dec.)*
- Lee 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. *(3-29-94)*
- Lee 6. Cardex file has been updated for each well listed above. *(3-29-94)*
- Lee 7. Well file labels have been updated for each well listed above *(3-29-94)*
- Lee 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission. *(3-29-94)*
- Lee 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

## ENTITY REVIEW

- Yes 1. (Rule R615-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) no (If entity assignments were changed, attach copies of Form 6, Entity Action Form).
- N/A 2. State Lands and the Tax Commission have been notified through normal procedures of entity changes.

## BOND VERIFICATION (Fee wells only)

- N/A 1. (Rule R615-3-1) The new operator of any fee lease well listed above has furnished a proper bond.
- Yes 2. A copy of this form has been placed in the new and former operators' bond files.
- Yes 3. The former operator has requested a release of liability from their bond (yes/no) yes. Today's date 3/30/94 1994. If yes, division response was made by letter dated 3/30/94 1994.

## LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY

- N/A 1. (Rule R615-2-10) The former operator/lessee of any **fee lease** well listed above has been notified by letter dated 3/30/94 1994, of their responsibility to notify any person with an interest in such lease of the change of operator. Documentation of such notification has been requested.
- N/A 2. Copies of documents have been sent to State Lands for changes involving **State leases**.

## FILMING

- Yes 1. All attachments to this form have been microfilmed. Date: 4-5 1994.

## FILING

- Yes 1. Copies of all attachments to this form have been filed in each well file.
- Yes 2. The original of this form and the original attachments have been filed in the Operator Change file.

## COMMENTS

940329 Btm/BIA "Mobil Oil Co." McElmo Creek Unit operator.

\* All other wells within unit were changed to MEPNA 4-24-86. Referred "Mobil Oil" to Btm/BIA.

# PHONE CONVERSATION DOCUMENTATION FORM

Route original/copy to:

☐ **Well File** \_\_\_\_\_  
 (Location) Sec \_\_\_\_\_ Twp \_\_\_\_\_ Rng \_\_\_\_\_  
 (API No.) \_\_\_\_\_

☐ **Suspense**  
 (Return Date) \_\_\_\_\_  
 (To - Initials) \_\_\_\_\_

☒ **Other**  
**OPER NM CHG** \_\_\_\_\_

1. Date of Phone Call: 8-3-95 Time: \_\_\_\_\_

2. DOGM Employee (name) L. CORDOVA (Initiated Call ☐)  
 Talked to:

Name R. J. FIRTH (Initiated Call ☒) - Phone No. ( ) \_\_\_\_\_  
 of (Company/Organization) \_\_\_\_\_

3. Topic of Conversation: M E P N A / N7370

4. Highlights of Conversation: \_\_\_\_\_

OPERATOR NAME IS BEING CHANGED FROM M E P N A (MOBIL EXPLORATION AND PRODUCING  
NORTH AMERICA INC) TO MOBIL EXPLOR & PROD. THE NAME CHANGE IS BEING DONE AT  
THIS TIME TO ALLEVIATE CONFUSION, BOTH IN HOUSE AND AMONGST THE GENERAL PUBLIC.  
\*SUPERIOR OIL COMPANY MERGED INTO M E P N A 4-24-86 (SEE ATTACHED).



Division of Oil, Gas and Mining  
**OPERATOR CHANGE WORKSHEET**

Routing:	
1- <del>LWC</del>	7- <del>PL</del>
2- <del>LWP</del>	8- <del>SJ</del>
3- <del>DES</del>	9- <del>FILE</del>
4- <del>VLC</del>	
5- <del>RJF</del>	
6- <del>LWP</del>	

Attach all documentation received by the division regarding this change.  
 Initial each listed item when completed. Write N/A if item is not applicable.

- ☐ Change of Operator (well sold)      ☐ Designation of Agent  
☐ Designation of Operator      ☒ Operator Name Change Only

The operator of the well(s) listed below has changed (EFFECTIVE DATE: 8-2-95)

TO (new operator) **MOBIL EXPLOR & PROD**  
 (address) **C/O MOBIL OIL CORP**  
**PO DRAWER G**  
**CORTEZ CO 81321**  
 phone **(303) 564-5212**  
 account no. **N7370**

FROM (former operator) **M E P N A**  
 (address) **C/O MOBIL OIL CORP**  
**PO DRAWER G**  
**CORTEZ CO 81321**  
 phone **(303) 564-5212**  
 account no. **N7370**

Well(s) (attach additional page if needed):

Name: <b>** SEE ATTACHED **</b>	API: <u>037-31677</u>	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____

**OPERATOR CHANGE DOCUMENTATION**

- N/A 1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form).
- N/A 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form).
- N/A 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is company registered with the state? (yes/no) \_\_\_\_\_ If yes, show company file number: \_\_\_\_\_.
- N/A 4. (For Indian and Federal Wells ONLY) The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of **Federal and Indian** well operator changes should take place prior to completion of steps 5 through 9 below.
- Yes 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. (8-3-95)
- LWP 6. Cardex file has been updated for each well listed above. 8-21-95
- LWP 7. Well file labels have been updated for each well listed above. 9-28-95
- Yes 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission. (8-3-95)
- Yes 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

ENTITY REVIEW

- Yes 1. (Rule R615-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) no (If entity assignments were changed, attach copies of Form 6, Entity Action Form).
- N/A 2. State Lands and the Tax Commission have been notified through normal procedures of entity changes.

BOND VERIFICATION (Fee wells only) *\* No Fee Lease Wells at this time!*

- N/A Yes 1. (Rule R615-3-1) The new operator of any fee lease well listed above has furnished a proper bond.
- \_\_\_ 2. A copy of this form has been placed in the new and former operators' bond files.
- \_\_\_ 3. The former operator has requested a release of liability from their bond (yes/no) \_\_\_. Today's date \_\_\_\_\_ 19\_\_\_. If yes, division response was made by letter dated \_\_\_\_\_ 19\_\_.

LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY

- N/A OTS 8/5/95 1. (Rule R615-2-10) The former operator/lessee of any **fee lease** well listed above has been notified by letter dated \_\_\_\_\_ 19\_\_, of their responsibility to notify any person with an interest in such lease of the change of operator. Documentation of such notification has been requested.
- N/A 2. Copies of documents have been sent to State Lands for changes involving **State leases**.

FILMING

- ✓ 1. All attachments to this form have been microfilmed. Date: October 6 19 95.

FILING

- \_\_\_ 1. Copies of all attachments to this form have been filed in each well file.
- \_\_\_ 2. The original of this form and the original attachments have been filed in the Operator Change file.

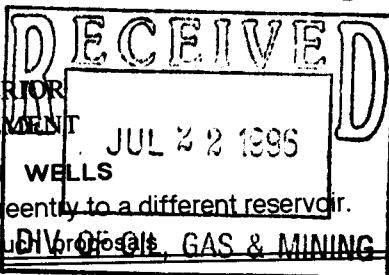
COMMENTS

950803 UIC F5/Not necessary!

STATE OF UTAH  
INVENTORY OF INJECTION WELLS

OPERATOR	API NO.	WELL	TNS	RGE	SE	WELLTYPE	INDIAN COUNT
*****	*****	*****	***	***	**	*****	*****
✓MEPNA (MOBIL	43-037-15617	F-11	40S	24E	36	INJW	Y
✓MEPNA (MOBIL	43-037-16350	H-11	40S	24E	36	INJW	Y
✓MEPNA (MOBIL	43-037-15618	G-12	40S	24E	36	INJI	Y
✓MEPNA (MOBIL	43-037-15619	I-12	40S	24E	36	INJW	Y
✓MEPNA (MOBIL	43-037-16377	T-8	40S	25E	28	INJW	Y
✓MEPNA (MOBIL	43-037-16366	P-7	40S	25E	29	INJW	Y
✓MEPNA (MOBIL	43-037-16362	N-7	40S	25E	29	INJW	Y
✓MEPNA (MOBIL	43-037-15961	M-10	40S	25E	31	INJW	Y
✓MEPNA (MOBIL	43-037-16359	L-9	40S	25E	31	INJW	Y
✓MEPNA (MOBIL	43-037-15955	K-12	40S	25E	31	INJW	Y
✓MEPNA (MOBIL	43-037-16354	J-11	40S	25E	31	INJW	Y
✓MEPNA (MOBIL	43-037-15958	L-11	40S	25E	31	INJW	Y
✓MEPNA (MOBIL	43-037-15962	M-12	40S	25E	31	INJW	Y
✓MEPNA (MOBIL	43-037-16367	P-9	40S	25E	32	INJW	Y
✓MEPNA (MOBIL	43-037-31677	Q12A	40S	25E	32	INJW	Y
✓MEPNA (MOBIL	43-037-15968	O-12	40S	25E	32	INJW	Y
✓MEPNA (MOBIL	43-037-15971	P-11	40S	25E	32	INJW	Y
✓MEPNA (MOBIL	43-037-15965	N-11	40S	25E	32	INJW	Y
✓MEPNA (MOBIL	43-037-15967	O-10	40S	25E	32	INJW	Y
✓MEPNA (MOBIL	43-037-15964	N-9	40S	25E	32	INJW	Y
✓MEPNA (MOBIL	43-037-15973	Q-10	40S	25E	32	INJW	Y
✓MEPNA (MOBIL	43-037-30080	T-09A	40S	25E	33	INJW	Y
✓MEPNA (MOBIL	43-037-16155	U-12	40S	25E	33	INJW	Y
✓MEPNA (MOBIL	43-037-16375	S-10	40S	25E	33	INJW	Y
✓MEPNA (MOBIL	43-037-30179	R-11A	40S	25E	33	INJI	Y
✓MEPNA (MOBIL	43-037-16381	U-10	40S	25E	33	INJW	Y
✓MEPNA (MOBIL	43-037-16147	R-09	40S	25E	33	INJI	Y
✓MEPNA (MOBIL	43-037-16150	S-12	40S	25E	33	INJW	Y
✓MEPNA (MOBIL	43-037-16351	H-13	41S	24E	1	INJW	Y
✓MEPNA (MOBIL	43-037-16144	G-16	41S	24E	1	INJW	Y
✓MEPNA (MOBIL	43-037-16345	F-13	41S	24E	1	INJW	Y
✓MEPNA (MOBIL	43-037-16143	G-14	41S	24E	1	INJW	Y
✓MEPNA (MOBIL	43-037-15495	H-15	41S	24E	1	INJI	Y
✓MEPNA (MOBIL	43-037-15497	I-16	41S	24E	1	INJW	Y
✓MEPNA (MOBIL	43-037-31149	F-15A	41S	24E	1	INJI	Y
✓MEPNA (MOBIL	43-037-16267	D-13	41S	24E	2	INJW	Y
✓MEPNA (MOBIL	43-037-16268	E-14	41S	24E	2	INJW	Y
✓MEPNA (MOBIL	43-037-16341	D-15	41S	24E	2	INJW	Y
✓MEPNA (MOBIL	43-037-16340	B-15	41S	24E	2	INJW	Y
✓MEPNA (MOBIL	43-037-15616	E-16	41S	24E	2	INJW	Y
✓MEPNA (MOBIL	43-037-16265	C-14	41S	24E	2	INJW	Y
✓MEPNA (MOBIL	43-037-16338	A-17	41S	24E	10	INJW	Y
✓MEPNA (MOBIL	43-037-15704	D-17	41S	24E	11	INJW	Y
✓MEPNA (MOBIL	43-037-16342	E-19	41S	24E	11	INJW	Y
✓MEPNA (MOBIL	43-037-15702	C-18	41S	24E	11	INJI	Y
✓MEPNA (MOBIL	43-037-15496	H-17	41S	24E	12	INJI	Y
✓MEPNA (MOBIL	43-037-16346	G-19	41S	24E	12	INJW	Y
✓MEPNA (MOBIL	43-037-15709	I-18	41S	24E	12	INJW	Y
✓MEPNA (MOBIL	43-037-15710	I-20	41S	24E	12	INJW	Y
✓MEPNA (MOBIL	43-037-15493	F-17	41S	24E	12	INJW	Y
✓MEPNA (MOBIL	43-037-15494	G-18	41S	24E	12	INJI	Y
✓MEPNA (MOBIL	43-037-16352	I-23	41S	24E	13	INJI	Y
✓MEPNA (MOBIL	43-037-16348	G-23	41S	24E	13	INJW	Y

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT



FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT - " for such proposals.

SUBMIT IN TRIPLICATE

1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other INJECTOR	5. Lease Designation and Serial No. 14-20-603-372
2. Name of Operator Mobil Exploration & Producing U.S. Inc. as Agent for Mobil Producing TX & NM Inc.	6. If Indian, Allottee or Tribe Name NAVAJO TRIBAL
3. Address and Telephone No. P.O. Box 633, Midland, TX 79702 (915) 688-2585	7. If Unit or CA, Agreement Designation McELMO CREEK UNIT
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) SEC. 32 - T40S - R25E 368' FSL, 917 FEL	8. Well Name and No. McELMO CREEK Q-12A
	9. API Well No. 43-037-31677
	10. Field and Pool, or exploratory Area GREATER ANETH FIELD
	11. County or Parish, State SAN JUAN UTAH

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other TA'D
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

1. KILL WELL, PUT ON WATER AS LONG AS POSSIBLE, THEN USE 10# BRINE, CONSIDER MUD KILL BEFORE SNUBBING.

2. UNSET GUIBERSON PKRS @ 3966', 4135' & 5393', POH SLOWLY IN CASE OF CSG. COLLAPSE (4030-4056').

3. GIH W/CEMENT RETAINER, SET @ 3800'.

4. CIRC PKR FLUID AND POH W/TBG.

5. TEST CSG TO 1000#, 30 MIN, SCHEDULE MIT.

PROCEDURE WRITTEN TO PROTECT CASING & WATER SOURCES WHILE WELL UNDER STUDY.

SEE ATTACHMENTS

14. I hereby certify that the foregoing is true and correct

Signed Shirley Robertson Title ENV. & REG. TECHNICIAN Date 07-12-96

(This space for Federal or State office use)

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_

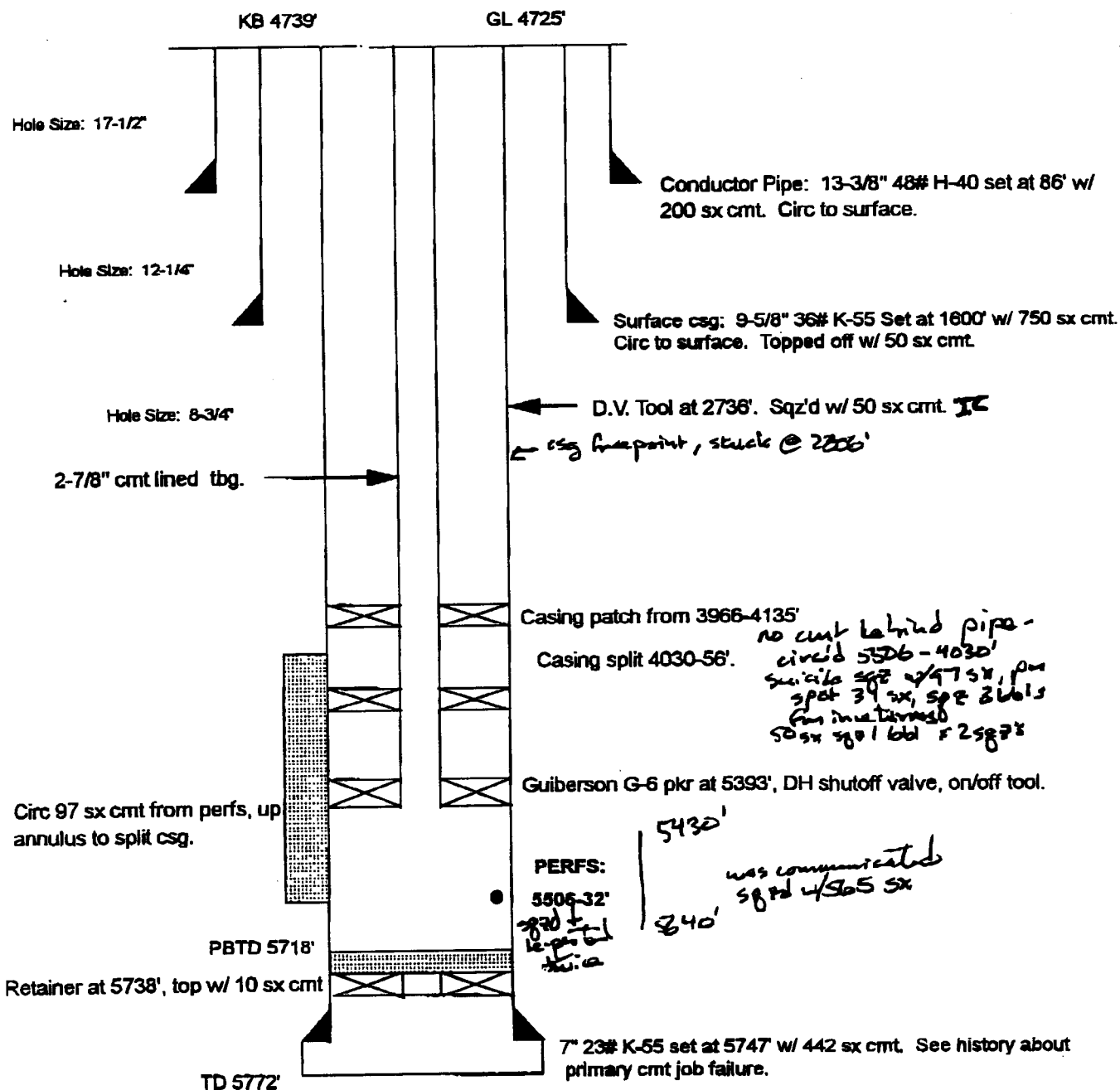
Conditions of approval, if any: \_\_\_\_\_

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**McELMO CREEK UNIT # Q-12A****GREATER ANETH FIELD****368' FSL & 917' FEL****SEC 32-T40S-R25E****SAN JUAN COUNTY, UTAH****API 43-037-31677****PRISM 0042270****INJECTOR**

Capacities:	bbl/ft	gal/ft	cwt/ft
2-7/8" 6.5#	.00579	.2431	.0025
7" 23#	.0393	1.6535	.2210
2-7/8x7-23#	.0313	1.3162	.1760

*1000 bpd injector support  
R-φB + T12*



## WELL HISTORY

McELMO CREEK UNIT #Q-12A  
GREATER ANETH FIELD  
368' FSL, 917' FEL  
SEC 32, T40S, R25E  
SAN JUAN COUNTY, UTAH

API# 43-037-31677  
PRISM ID 0042270

KB: 4739' GL: 4725'  
TD: 5772' PBTD: 5718'

9-17-92 Drill & Complete: Spud 8-6-92

Conductor Pipe: 17-1/2" hole, 13-3/8" 48# H-40 STC at 86' w/ 200 sx G cmt, Circ.

Surface Casing: 12-1/4" hole, 9-5/8" 36# K-55 STC at 1600' w/ 400 sx G 65/35 Poz followed by 350 sx G cmt. Circ. Cmt fell back. Top off w/ 50 sx G to surface.

OH logs: DIL, LDT-CNL, SONIC, RFT, MSCT

Production Csg: 8-3/4" hole. 7" 23# K-55 LTC (DV tool at 2736'). Set at 5747'. Cmt'd 1st stage w/ 300 sx G Poz followed by 142 sx G. (Discovered cmt was contaminated w/ drilling mud. Pumped mud to circ cmt out of hole but mud volume was insufficient and circ stopped. When volume was restored, circ was not possible. Tried to reciprocate csg. Csg stuck 25' off bottom at 5722'. Ran freepoint, csg stuck at 2809'. Ran CBL. Open DV Tool at 2736'. No circ to surface.) Est TOC at 5400'.

MIRU Completion rig. DO DV tool. Test csg - leaked. DO & CO to 5745' (float shoe). Set cmt retainer at 5738'. Press to 2600#. No press observed on 9-5/8"x7" annulus. Spot 10 sx cmt on top retainer. New PBTD 5718'. Leak found DV tool at 2736'. Spot 50 sx plug 2496-2766', sqz DV tool. DO cmt. Test csg to 1000#/30 min/OK. Perforated 4 jpf 5506-32'. Perfs won't BD. Spot 126 gal 15% FENE HCl. BD perfs. Spot another 500 gal acid. Pumped acid at 2.2 bpm at 3500#. Swab. Acidized w/ 2650 gal 15% NEFE HCl at 2 bpm at 3533#, Final 4 bpm at 82#, ISIP 0#. Swab. Ran GR temp base log. Pumped 1500 gal FWTR tagged w/ 1 MC IR-192, flush. Ran GR temp log 5694-5200'. Log showed comm from 5640-5430'. POOH RBP & Pkr. Set retainer at 5410'. Sqz w/ 365 sx "G" cmt. No Sqz. Sqz'd w/ another 200 sx "G" cmt. Sqz successful. DO retainer and cmt 5406-5532'. Test sqz - leaked. CO to PBTD. Perforated 5506-32' 4 jpf. Spot 4 bbl 15% HCl across perfs. MP 2670#, .4 bpm at 2670#. Swab. RIH w/ Guib. G-6 pkr on 2-7/8" cmt lined tbg. Set pkr at 5474'. RDMO.

4-5-93 PRESS ON CASING: CSG FLOWING 2" STREAM. RU SNUBBING UNIT. COULD NOT RELEASE PKR. RAN FREEPOINT. TBG STUCK AT 4061'. FIRE CUTTER AT 4233'. COULD NOT PULL TBG FREE. SET PLUG AT 4230'. POOH TBG. SNUB IN HOLE W/ FISHING TOOLS. POOH W/ TBG FISH. RIH W/ CSG SWEDGE. TAG COLLAPSED CSG AT 4040'. SWEDGE OUT TO 4070' THEN FELL THRU. CIRC HOLE, RETURNS LOOKED LIKE MUD COLORED WTR. CONTINUE TO SWEDGE OUT. POOH. RIH W/ O.S. TAG FISH AT 4233'. POOH W/ FISH, PKR MISSING. RIH AND LATCHED ONTO PKR, POOH. RAN CET LOG. TOOL WOULD NOT WORK PROPERLY DUE TO GAS CUT FLUID. SET RBP AT 5490'. CIRC HOLE W/ 10# BRINE. RAN CET LOG. LOG INDICATED SPLIT CSG 4030-56'. NO CMT BEHIND PIPE. POOG RBP. SET RETAINER AT 5367'. EST CIRC FROM PERFS BEHIND CSG TO SPLIT IN CSG AT 4030'. PUMPED 97 SX CMT THRU RETAINER, UP BACKSIDE, AND OUT SPLIT. PULL TBG TO 4076', REV CIRC. WOC. SPOT 31 SX CMT AT 4076'. SQZ OUT 3 BBL CMT. TAG TIGHT CSG AT 4030', PUSH THRU TO 4048'. DO CMT 4048-4052'. BIT TORQUEING, RECOVERING LARGE AMT FORMATION, CMT,

DEHYDRATED DRILLING MUD, SMALL AMT OF METAL. DO CMT 4052-4076'. RAN CCL LOG, BAD CSG 4030-56'. DO CMT 4078-4105'. RIH W/ STRING MILL TO DRESS UP BAD CSG. DO CMT 4252-97'. DRESSED UP TIGHT SPOT AT 4075'. TEST CSG - LEAKED. SET CIBP AT 4178'. SPOT 50 SK PLUG 3910-4172'. SQZ 1 BBL CMT INTO FORM. DO CMT 4050-54'. TEST SQZ - LEAKED. SPOT 50 SK CMT PLUG 3791-4050'. SQZ AWAY 1 BBL CMT. DO CMT 3797-4109'. HOLE CLEANED UP WELL W/ NO DRAG. TEST CSG - LEAKED. DO CMT 4109-78'. DO CIBP AND DO TO 5344'. SET PKR AT 3984'. TEST CSG 3984' TO SURFACE TO 1000# FOR 30 MIN. RIH W/ PKR, COULDN'T GET PAST 4045'. POOH. RIH W/ 6.125" STRING MILL. DRESS UP CSG 4030-56'. SET PKR AT 4095'. TEST CSG 4095-5344' TO 1000# FOR 30 MIN. POOH. DO RET AT 5367', CO TO 5388'. DO CMT 5388-5540'. FREE TO 5666'. DO TO 5718'. RAN CET LOG FROM 5600-4000'. PERFORATED 5506-32' 4 SPF. SET PKR AT 5393'. PUMPED 10# BRINE AT .22 BPM AT 2500#, 15 MIN SI 880#. POOH PKR. SET GUIBERSON G-6 PKR, PROFILE, DHSOV, ON OFF TOOL, SET PKR AT 5393'. RIH W/ CSG PATCH 3966-4135'.

9-29-93 RECEIVED APPROVAL TO COMMENCE INJECTION.

Source of Information: Cortez Office Wellfile  
LA Tucker 4-30-96

\* try sqz again?  
\* is well in zone anyway?  
can you squeeze a casing split?

7" 23" ID  
6.241  
5.5" OD 6.050  
not nuff  
4.5" OD 5"  
ID 4.05  
2.875" 3.5"  
What is rate? Q-12A  
Set a plug in Hg.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.

Use "APPLICATION FOR PERMIT - " for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☐ Gas Well ☒ Other

2. Name of Operator

MOBIL PRODUCING TX & NM INC.\*  
\*MOBIL EXPLORATION & PRODUCING US INC. AS AGENT FOR MPTM

3. Address and Telephone No.

SHIRLEY HOUGHINS, P.O. Box 633, Midland TX 79702(915) 688-2585

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

SEC. 32, T40S, R25E  
368' FSL & 917' FEL

5. Lease Designation and Serial No.

14-20-603-372

6. If Indian, Allottee or Tribe Name

NAVAJO TRIBAL

7. If Unit or CA, Agreement Designation

MCELMO CREEK UNIT

8. Well Name and No.

MCELMO CREEK Q-12A

9. API Well No.

43-037-31677

10. Field and Pool, or exploratory Area

GREATER ANETH

11. County or Parish, State

SAN JUAN UT

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent  
☒ Subsequent Report  
☐ Final Abandonment Notice

TYPE OF ACTION

- ☒ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☐ Other

INJECTOR

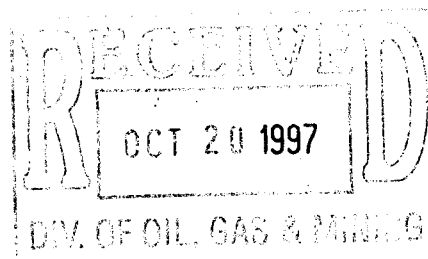
- ☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☐ Conversion to Injection  
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

SEE ATTACHED

Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY



14. I hereby certify that the foregoing is true and correct

Signed

*Lue Moseley for*

Title SHIRLEY HOUGHINS/ENV & REG TECH

Date 10-15-97

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

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\* See Instruction on Reverse Side



MCELMO CREEK UNIT Q-12A  
PLUG AND ABANDON  
TOM COCHRANE (970) 564-5210, PAGER (970) 382-5070

GENERAL PROCEDURE;

- A. NOTIFY BLM (505) 599-8900, AND NAVAJO EPA (505) 368-4125 AT LEAST 48 HRS PRIOR TO PLUGGING THE WELL. DOCUMENT DATE AND TIME BLM/EPA ARE NOTIFIED AND DATES AND TIMES EPA OR BLM REPS ARE ON LOCATION.
- B. PLUGGING CEMENT IS CLASS B 15.6 PPG NEAT
- C. PLUGGING MUD IS 9 PPG FW W/MIN VIS 50 SEC/QT W/MIN 15 LBS/BBL SODIUM BENTONITE AND NON-FERMENTING POLYMER
- D. IF WELL IS TAKING FLUID AFTER SETTING CIBP, CMT PLUGS WILL HAVE TO BE TAGGED AFTER WOC.
- E. IN GENERAL, PLUGS ARE SET TO ISOLATE THE DESERT CREEK (AND ISMAY) PAY ZONES, 50' ABOVE AND BELOW OUTER CASING SHOES AND THE CHINLE AND HERMOSA, AND 250' AT SURFACE. SPECIFIC WELL PROCEDURES MAY BE DIFFERENT BASED ON UNUSUAL CIRCUMSTANCES
- F. CUT OFF AND REMOVE ANY PRODUCTION CASING YOU CAN.

Well info, tops; Desert Creek 5504', Gothic Shale 5496', Ismay 5372', Hermosa 4555', Organ Rock 2760', DeChelley 2650', Wingate 1153', Kayenta 1095'.

SPECIFIC PROCEDURE;

1. ND WH, NU BOP.
2. GIH W/STINGER ON WS. STING INTO RET @ 3792'. SQZ BELOW RET W/300 SX CMT TO 1500# MAX. CO EXCESS. DO NOT SHORT THE CEMENT, THERE ARE PROBABLY VOIDS BEYOND HOLE VOLUME THAT WILL TAKE SOME. WE ALSO NEED TO GET A PRESSURE SQUEEZE ON THE CASING SPLIT BELOW THE RETAINER.
3. CIRC HOLE W/PLUGGING MUD.
4. STING INTO AND PICKUP 7" CSG, DETERMINE FREEPOINT. BACKOFF CASING AND POH W/FREE CSG.
5. FILL HOLE FROM WHICHEVER IS DEEPER; CASING REMOVAL DEPTH OR 1650' BACK TO SURFACE WITH PLUGGING CMT.
6. ND BOP. CUTOFF CSG STRINGS @ GROUND LEVEL. TOP OFF ALL CASING ANNULI WITH CMT, USING 1" SPAGHETTI STRING IF NEEDED TO SPOT CMT. WELD ON A 1/4" STEEL PLATE W/A 1/4" WEEP HOLE. STEEL PLATE SHOULD COVER ALL CASING STRINGS. WELD A 4' 2.875" TBG (4' ABOVE GROUND) WITH A ANGLED, READABLE PLATE ON TOP WITH THE FOLLOWING INFORMATION WELDED OR STAMPED ON THE TOP OF THE PLATE;

MOBIL E&P US  
MCELMO CREEK UNIT Q-12A  
NAVAJO TRIBAL LEASE 14-20-603-372  
368' FSL 917' FEL SEC 32 T40S R25E  
SAN JUAN COUNTY UTAH

7. RDMO WORKOVER RIG. HAUL OFF SALVAGED EQUIPMENT AND CLEAN LOCATION. NOTIFY EARL AHTSOSIE @ 970 565-1318 THAT THE WELL IS PLUGGED (HE MAY WANT TO REMOVE SURFACE PIPE). NOTIFY SHIRLEY HOCHINS @ 915 688-2585 WHEN WORK IS COMPLETED SO A SUNDRY NOTICE (SUBSEQUENT REPORT OF ABANDONMENT, FORM 3160-5) CAN BE FILED WITH THE BLM. NOTIFY DIANE WILSON 970 565-5201 THAT THE WELL IS PLUGGED.

TOM COCHRANE 10/14/97

COIL TUBING & ACID  
PULLING UNIT  
SERVICE TOOLS  
WHIPSTOCK TOOLS

DOWELL SCHLUMBERGER 505 325-5096 FAX 505 327-0317  
MONTEZUMA WELL SERVICE 970 565-6586  
ARROW (MOUNTAIN STATES) 970 565-4390  
WEATHERFORD 505 327 6341

PERMANENT PACKERS/ETC  
WELLHEADS  
TUBING TONGS  
TUBING INSPECTION/STORAGE  
SQUEEZE CEMENTING

GUIBERSON 505 327-9127  
BIG RED TOOL 505 325-5045, NATIONAL 505 563-2460  
TONG RENTAL 505 632-7648  
FRONTIER 505 325-7806  
HALLIBURTON 505 325-3575

#### GENERAL AREA REQUIREMENTS

1. ALL SAFETY GUIDELINES WILL BE FOLLOWED. INCLUDING PERSONAL PROTECTIVE EQUIPMENT; HARD HATS, ANSI BOOTS, AND SAFETY GLASSES WITH SIDE SHIELDS ARE REQUIRED. OTHER COMMON MISTAKES ARE RIG HANDRAILS NEED TO BE UP, LOCATIONS NEED TO BE NEAT AND ORDERLY, AND ALL VENDORS MUST HAVE ALL SAFETY TRAINING UP TO DATE INCLUDING DOCUMENTATION ON LOCATION. HYDRIL BOPS WILL BE USED ANY TIME SOMETHING IS IN THE WELL THAT THE BOP CANNOT CLOSE AROUND INCLUDING DRILL COLLARS AND SUB PUMPS.

MSDS MUST BE MAINTAINED FOR ALL MATERIALS ON LOCATION EXCEPT STANDARD LUBRICANTS

PITS - WILL BE FENCED, LINED WITH AN IMPERVIOUS MATERIAL AT LEAST 8 MILS THICK, AND CLOSED IMMEDIATELY UPON COMPLETION OF THE WORKOVER ACTIVITIES.

ALL DISTURBANCE WILL BE KEPT ON EXISTING WELL PAD.

SEE ATTACHED CONTRACTOR SAFETY REQUIREMENTS

#### 2. NOTIFICATIONS;

MUST BE NOTIFIED FOR LARGE SPILLS, WATER OR OIL > 10 BBLs

MOBIL EHS TECH - DELPHINE WHITEHORSE 970 565-1344, PAGER 505 599-7058  
EPA - MELVIN CAPITAN 801 651-3600, BLM SHIRLEY DAVENPORT 505 599-6316,  
NLAO BELINDA CLARK 801 651-3655  
MOBIL DRILLING SUPT - JERRY ORNDORFF 915 688-1648  
MOBIL OPERATIONS ENGINEER - TOM COCHRANE 970 564-5210

MUST BE NOTIFIED FOR ANY ACCIDENTS UP TO AND INCLUDING LOST TIME;

MOBIL EHS TECH - DELPHINE WHITEHORSE 970 565-1344, PAGER 505 599-7058  
MOBIL DRILLING SUPT - JERRY ORNDORFF 915 688-1648  
MOBIL OPERATIONS ENGINEER - TOM COCHRANE 970 564-5210

CASING LEAK RIG-UPS, SQUEEZE NOTIFICATIONS, AND QUESTIONS ABOUT PRESSURE TEST REQUIREMENTS;  
BLM - 505 599-8907, NOTIFY BEFORE SQUEEZE SO THEY CAN WITNESS IF THEY WANT

IF CASING LEAK IS A SURPRISE (WASN'T EXPECTED), DISCUSS PLAN WITH THE OPERATIONS ENGINEER TOM COCHRANE PAGER 970 382-5070 THEN CALL BLM WAYNE TOWNSEND 505 599-6359 AND DISCUSS THE PROBLEM AND PLAN. OPERS ENGR WILL PREPARE A DOCUMENTATION PROCEDURE TO SEND TO SHIRLEY HOUCHEMS.

3. REPORTS, A PHONE MESSAGE REPORT IS REQUIRED NIGHTLY TO THE OPERATIONS ENGINEER 970 564-5210, THE REPORT SHOULD BE THE ACTIVITY SECTION OF THE DRILLING REPORT PLUS THE DAILY AND CUMULATIVE COSTS.

4. WELL CONTROL. WELL SUBSEQUENTLY CONTROLLED WITH FRESH WATER, CLEAN 10# BRINE, HEAVY 10.6# BRINE (FROM MONTEZUMA WELL), HEAVY SALT MUD CACL UP TO 11.6#, PARTICULATE CACO3 MUD UP TO 12.6, AND BENTONITE/BARITE MUD ABOVE 12.6#. FOR THE TIME BEING WE ARE AVOIDING SNUBBING UNITS.

5. RIG SUPERVISORS WILL MAKE EVERY ATTEMPT TO ENHANCE RELATIONSHIPS WITH LOCALS AND VENDORS, WITHOUT SIGNIFICANTLY IMPACTING COSTS. OBEY AND ENCOURAGE ALL YOU WORK WITH TO BE CURTEOUS AND STRICTLY OBEY SPEED LIMITS ON LEASE ROADS.

6. CASING LEAK SQUEEZES WILL BE DONE WITH CLASS G NEAT. SUCCESS RATE WITH THIS CEMENT FROM HALLIBURTON IS 80%. OTHER TECHNIQUES AND COMPANIES WILL NOT BE USED AS LONG AS SUCCESS RATE CONTINUES. INJECTORS HAVE TO PASS 1000# /30 MINS, PRODUCERS 500#/30 MINS. DO NOT TEST UNLESS YOU SUSPECT LEAK.

- A. FOR SHALLOW LEAKS WITH NO CMT ON CASING ANNULUS, CONSIDER CUTTING OUT THE BAD SECTION OF PIPE, POH, AND TIE BACK AND CEMENT A NEW SECTION OF CASING.
- B. FOR BLEED OFF LEAKS SPOT CMT ACROSS AND ABOVE LEAK, PRESSURE UP TO 1500# UNTIL SQUEEZES. POH, SI BLINDS AND RE-PRESSURE UP TO 1500# SION W/PRESSURE ON SQUEEZE.
- C. FOR EIR > 0.5 BPM AND LEAKS DEEPER THAN 1000' USE CMT RETAINER, SAME CEMENT. DO NOT DO NOT FAIL TO CALL OUT ENOUGH CEMENT TO SQUEEZE THE LEAK. THE EXTRA COST OF THE BULK CEMENT IS EASILY JUSTIFIED VS. THE COST OF A FAILED SQUEEZE DUE TO NOT ENOUGH CEMENT.

7. NOTIFY OPERATIONS PEOPLE OF ANY WORK IMPACTING THEM. THIS INCLUDES ANY EMERGENCY INJECTOR SHUT-INS. DO NOT TURN PRODUCTION WELLS BACK ON, LEAVE THIS TO THE OPERATIONS PEOPLE SO THEY CAN BE SURE ALL SAFETY SHUT-DOWNS ARE ACTIVE, AND THAT SURFACE FACILITIES ARE READY FOR THE PRODUCTION. KEEP TRACK OF YOUR OWN TUBING AND OTHER MATERIALS YOU WILL NEED TO DO THE WORK.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT -" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☐ Gas Well ☒ Other

2. Name of Operator MOBIL PRODUCING TX & NM INC.\*

\*MOBIL EXPLORATION & PRODUCING US INC. AS AGENT FOR MPTM

3. Address and Telephone No.

SHIRLEY HOUGHINS, P.O. Box 633, Midland TX 79702(915) 688-2585

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

SEC. 32, T40S, R25E  
368' FSL & 917' FEL

FORM APPROVED

Budget Bureau No. 1004-0135

Expires: March 31, 1993

5. Lease Designation and Serial No.

14-20-603-372

6. If Indian, Allottee or Tribe Name

NAVAJO TRIBAL

7. If Unit or CA, Agreement Designation

MCELMO CREEK UNIT

8. Well Name and No.

MCELMO CREEK Q-12A

9. API Well No.

43-037-31677

10. Field and Pool, or exploratory Area

GREATER ANETH

11. County or Parish, State

SAN JUAN UT

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent  
☒ Subsequent Report  
☐ Final Abandonment Notice

TYPE OF ACTION

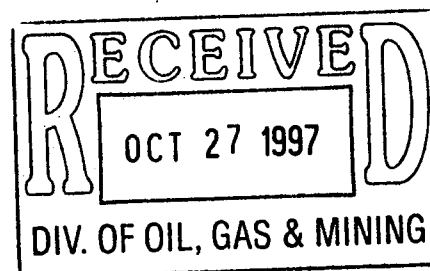
- ☒ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☐ Other INJECTOR
- ☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☐ Conversion to Injection  
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

SEE ATTACHED

09-09-96 - 09-11-96 workover



14. I hereby certify that the foregoing is true and correct

Signed

*Shirley Houghins*

Title SHIRLEY HOUGHINS/ENV & REG TECH

Date 10-20-97

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

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\* See Instruction on Reverse Side

**NWI**  
 NAVAJO WEST, INC.  
 THE MINORITY ENTERPRISE  
 P.O. DRAWER 3337  
 FARMINGTON, NM 87499  
 PHONE (303) 565-6586

19-DC-2

10683

MCU FLS

COMPANY Mobil Oil

LEASE MCU

WELL NUMBER Q12A

STATE/COUNTY Utah San Juan

NW ☐ OW ☐ INC. ☐ COMP. ☐

UNIT NO. 26

DAILY OPERATIONS

DATE 09-09-96

FROM	TO	
6:15	7:30	Travel time
7:30	8:30	Road rig from M.C. yard to Loc.
8:30		Rig up + steel line from well head to rig pit. Bidwell
		down 700psi on tubing, 100psi casing. pump 35 bbls.
		down tubing. jay off packer. nipple down well head.
	1:00	nipple up BOP.
1:00	-	Latch back on packer. Rig up floor + Tong Rental.
		Rig up H+H wireline to set tubing plug at 5390'
	4:00	pressure up to 1600psi to set plug.
4:00		Rig down H+H wireline. jay off packer, T.O.D.H with
		landing jt, 2x8', 1x6', 1x4', 28jts. cement line
	6:00	Shut well in
6:00	7:15	Travel time

BIG A Rental		COST	DOWN HOLE EQUIPMENT COUNT		
<input checked="" type="checkbox"/>	PICKUP NO. 473	74.2	BOTTOM HOLE		
<input checked="" type="checkbox"/>	TBG STRIPPER HEAD		TBG	SIZE	COUNT
<input checked="" type="checkbox"/>	COMPANION FLANGE		RODS	SIZE	COUNT
<input checked="" type="checkbox"/>	BOP #53		RODS	SIZE	COUNT
<input checked="" type="checkbox"/>	POWER ROD OR TUBING TONGS		RODS	SIZE	COUNT
<input checked="" type="checkbox"/>	POWER SWIVEL USED <input type="checkbox"/> STANDBY <input checked="" type="checkbox"/> #02		SUBS	SIZE	COUNT
<input checked="" type="checkbox"/>	PUMP #02		POLISH ROD	SIZE	
<input checked="" type="checkbox"/>	PIT #01		DIESEL GALS.		
	PIPE RACKS		EMPLOYEES TIME		
	CAT WALK		RIG TIME	152	HOURS 10 1/2
	TONG HEADS 3% <input type="checkbox"/> 4% <input type="checkbox"/>		TRAVEL TIME	12	2 1/2
	DEPTHOMETER		OPR. Edgar Hashan		13
	SPIDER & SLIPS 3% <input type="checkbox"/> 4% <input type="checkbox"/>		DRK. Matthew Bernally		13
	ELEVATORS 3% <input type="checkbox"/>		F.H. Chris Mark		13
	BOP RAMS ADDITIONAL 2% <input type="checkbox"/> 3% <input type="checkbox"/>		F.H. Irving SilverSmith		13
	ROD STRIPPER HEAD		F.H.		
	ROD FISHING TOOLS		OPR. SIGNATURE <u>Edgar Hashan</u>		
	PARAFFIN KNIFE		TOOL PUSHER SIG. <u>Irving K. SilverSmith</u>		
	LIGHT PLANT		ACCEPTED BY: <u>Am L...</u>		
	STRIPPER RUBBERS		TOTAL DAILY COST \$ <u>1940</u>		
	SWAB CUPS SIZE TYPE				
	OIL SAVER RUBBERS				
	TONG DIES				
	SLIP SEGMENTS				
	OIL SAVER BRASS				
	PIPE DOPE ( ) CANS				
	HOS Equipment				

San Juan Regro Form 825-19

**NWI**  
 NAVAJO WEST, INC.  
 THE MINORITY ENTERPRISE  
 P.O. DRAWER 3337  
 FARMINGTON, NM 87499  
 PHONE (303) 565-6586

10684

COMPANY Mobil Oil  
 LEASE MCU  
 WELL NUMBER Q12 A  
 STATE/COUNTY Utah, San Juan  
 NW ☐ OW ☐ INC. ☐ COMP. ☐  
 DATE 09-10-96

UNIT NO. 26  
 DAILY OPERATIONS

19-DC-2

FROM	TO	
6:15	7:30	Travel time
7:20		Bled well down - 0 psi T.O.D.H with 97 jts
	10:30	126 jts total to top Liner.
11:30	2:00	Lay down 5 1/2 liner <del>4 jts</del> 4 jts liner
2:00		T.O.D.H with 40 jts <del>below liner</del> below liner.
		166 jts total lay down.
	4:00	Rig down Tong Rental
4:00.		Wait on tubing (Lansing) spot 400 tank in.
	6:30	spot trailer in. Shut well in.
6:30	7:45	Travel time

BIG A/Rental		COST	DOWN HOLE EQUIPMENT COUNT		
<input checked="" type="checkbox"/>	PICKUP NO. # 73	74	BOTTOM HOLE		
<input type="checkbox"/>	TBG STRIPPER HEAD		TBG	SIZE	COUNT
<input type="checkbox"/>	COMPANION FLANGE		RODS	SIZE	COUNT
<input checked="" type="checkbox"/>	BOP # 53		RODS	SIZE	COUNT
<input type="checkbox"/>	POWER ROD OR TUBING TONGS		RODS	SIZE	COUNT
<input type="checkbox"/>	POWER SWIVEL USED <input type="checkbox"/> STANDBY <input checked="" type="checkbox"/> # 02		SUBS	SIZE	COUNT
<input type="checkbox"/>	PUMP # 02		POLISH ROD	SIZE	
<input type="checkbox"/>	PIT # 1		DIESEL GALS.		
<input type="checkbox"/>	PIPE RACKS		EMPLOYEES TIME		
<input type="checkbox"/>	CAT WALK		HOURS		
<input type="checkbox"/>	TONG HEADS 3% <input type="checkbox"/> 4% <input type="checkbox"/>		RIG TIME	157	11 1/2
<input type="checkbox"/>	DEPTHOMETER		TRAVEL TIME	74	2 1/2
<input type="checkbox"/>	SPIDER & SLIPS 3% <input type="checkbox"/> 4% <input type="checkbox"/>		OPR. Edgar Haskan		18 13 1/2
<input type="checkbox"/>	ELEVATORS 3% <input type="checkbox"/>		DRK. Chris Mark		14 13 1/2
<input type="checkbox"/>	BOP RAMS ADDITIONAL 2% <input type="checkbox"/> 3% <input type="checkbox"/>		F.H. Clarence Whitehorse		13 1/2
<input type="checkbox"/>	ROD STRIPPER HEAD		F.H. Tran Lewis		7
<input type="checkbox"/>	ROD FISHING TOOLS		F.H.		
<input type="checkbox"/>	PARAFFIN KNIFE		OPR. SIGNATURE <u>Edgar Haskan</u>		
<input type="checkbox"/>	LIGHT PLANT		TOOL PUSHER SIG. <u>[Signature]</u>		
<input type="checkbox"/>	STRIPPER RUBBERS		ACCEPTED BY: <u>[Signature]</u>		
<input type="checkbox"/>	SWAB CUPS SIZE TYPE		TOTAL DAILY COST \$ <u>19</u>		
<input type="checkbox"/>	OIL SAVER RUBBERS				
<input type="checkbox"/>	TONG DIES				
<input type="checkbox"/>	SLIP SEGMENTS				
<input type="checkbox"/>	OIL SAVER BRASS				
<input type="checkbox"/>	PIPE DOPE ( ) CANS				
<input type="checkbox"/>	H2S Equipment	85			

san juan repro Form 525-19

**NWI**  
**NAVAJO WEST, INC.**  
**THE MINORITY ENTERPRISE**  
 P.O. DRAWER 3337  
 FARMINGTON, NM 87499  
 PHONE (303) 565-6586

10685

COMPANY Mobil Oil  
 LEASE MCH  
 WELL NUMBER Q12A  
 STATE/COUNTY Utah San Juan  
 NW ☐ OW ☐ INC. ☐ COMP. ☐  
 DATE 09-11-96

UNIT NO. 26  
 DAILY OPERATIONS

19-DC-2

FROM	TO	
7:00	7:30	Travel time
7:30		Bled well down - o - psi T.O.O.H. with tallied -
	11:00	pick up on off tool 17 jts. tag 29' in
11:00	12:30	circ with brine 200 bbls
12:30		latch on packer. Rig up H+H wireline to get
	2:00	tubing plug Rig down H+H wireline
2:00	3:30	Release the packer
3:30		T.O.O.H. lay down 59 jts. stand back 60 stand
		1 jt. with packer T.I.H. with 10 stand.
	6:00	shut well in
6:00	6:30	Travel time

BIG A Rents		COST	DOWN HOLE EQUIPMENT COUNT	
PICKUP NO.	73	74.00	BOTTOM HOLE	
TBG STRIPPER HEAD			TBG	SIZE COUNT
COMPANION FLANGE			RODS	SIZE COUNT
BOP #53			RODS	SIZE COUNT
POWER ROD OR TUBING TONGS			RODS	SIZE COUNT
POWER SWIVEL USED <input type="checkbox"/> STANDBY <input checked="" type="checkbox"/>			SUBS	SIZE COUNT
PUMP #02			POLISH ROD	SIZE
PIT #01			DIESEL GALS.	
PIPE RACKS			EMPLOYEES TIME	
CAT WALK			RIG TIME	HOURS
TONG HEADS 3% <input type="checkbox"/> 4% <input type="checkbox"/>			TRAVEL TIME	
DEPTHOMETER			OPR. Edgar Hasken	11 1/2
SPIDER & SLIPS 3% <input type="checkbox"/> 4% <input type="checkbox"/>			DRK. Irving Silver Smith	11 1/2
ELEVATORS 3% <input type="checkbox"/>			F.H. Chris Mark	11 1/2
BOP RAMS ADDITIONAL 2% <input type="checkbox"/> 3% <input type="checkbox"/>			F.H. Florence Whitehorse	11 1/2
ROD STRIPPER HEAD			F.H.	
ROD FISHING TOOLS			OPR. SIGNATURE <u>Edgar Hasken</u>	
PARAFFIN KNIFE			TOOL PUSHER SIG <u>Irving Silver Smith</u>	
LIGHT PLANT			ACCEPTED BY: <u>Amee</u>	
STRIPPER RUBBERS			TOTAL DAILY COST \$ <u>1829</u>	
SWAB CUPS SIZE TYPE				
OIL SAVER RUBBERS				
TONG DIES				
SLIP SEGMENTS				
OIL SAVER BRASS				
PIPE DOPE ( ) CANS				
H2S Equipment		45.00		

San Juan repro Form 925-18

**NWT**  
**NAVAJO WEST, INC.**  
**THE MINORITY ENTERPRISE**  
 P.O. DRAWER 3337  
 FARMINGTON, NM 87499  
 PHONE (303) 565-6586

10686

COMPANY Mobil Oil  
 LEASE MCU  
 WELL NUMBER Q12A  
 STATE/COUNTY Utah, San Juan  
 NW ☐ OW ☐ INC. ☐ COMP. ☐  
 DATE 09-12-96

UNIT NO. 26  
 DAILY OPERATIONS

37-02-2

FROM	TO	
6:15	7:30	Travel time
7:30		Bled well down casing 470 psi, tubing 470 psi pump 15 bbls
		kill well. T.O.H. with 23 jts, T.I.H. with cement retainer
		121 jts. set retainer 3792' lay down 1jt. to pressure
	11:00	test to 1000psi test good.
11:00		Circ. packer fluid 140 bbls. pressure test casing to 1000psi
	12:30	for 10 min test good.
12:30	2:00	T.O.H. lay down 120 jts. with retainer tool.
2:00	3:30	rig down floor + nipple down BOP. nipple up well head.
3:30	4:30	pressure test with chart on to 1060 psi test good.
4:30	5:30	rig down, road rig next loc.
5:30	6:45	Travel time

BIG A Rental	COST	DOWN HOLE EQUIPMENT COUNT		
PICKUP NO. #43	74	BOTTOM HOLE		
TBG STRIPPER HEAD		TBG	SIZE	COUNT
COMPANION FLANGE		RODS	SIZE	COUNT
BOP #53		RODS	SIZE	COUNT
POWER ROD OR TUBING TONGS		RODS	SIZE	COUNT
POWER SWIVEL USED <input type="checkbox"/> STANDBY <input type="checkbox"/> #02		SUBS	SIZE	COUNT
PUMP #02		POLISH ROD	SIZE	
PIT #01		DIESEL GALS.		
PIPE RACKS		EMPLOYEES TIME		HOURS
CAT WALK		RIG TIME	12 1/2	10
TONG HEADS 3% <input type="checkbox"/> 4% <input type="checkbox"/>		TRAVEL TIME	2 1/2	2 1/2
DEPTHOMETER		OPR. Edgar Huskari	12 1/2	12 1/2
SPIDER & SLIPS 3% <input type="checkbox"/> 4% <input type="checkbox"/>		DRK. Evelyn Silversmith	12 1/2	12 1/2
ELEVATORS 3% <input type="checkbox"/>		F.H. Chris Mark	12 1/2	12 1/2
BOP RAMS ADDITIONAL 2% <input type="checkbox"/> 3% <input type="checkbox"/>		F.H. Clarence Whitehorse	11	
ROD STRIPPER HEAD		F.H.		
ROD FISHING TOOLS		OPR. SIGNATURE <u>Edgar Huskari</u>		
PARAFFIN KNIFE		TOOL PUSHER SIG. <u>[Signature]</u>		
LIGHT PLANT		ACCEPTED BY: <u>[Signature]</u>		
STRIPPER RUBBERS		TOTAL DAILY COST \$ <u>1611.</u>		
SWAB CUPS SIZE TYPE				
OIL SAVER RUBBERS				
TONG DIES				
SLIP SEGMENTS				
OIL SAVER BRASS				
PIPE DOPE ( ) CANS				
HIS Equipment	85			

san juan repro Form 528-10

**ExxonMobil Production Company**  
U.S. West  
P.O. Box 4358  
Houston, Texas 77210-4358

June 27, 2001

**ExxonMobil**  
*Production*

Mr. Jim Thompson  
State of Utah, Division of Oil, Gas and Mining  
1549 West North Temple  
Suite 1210  
Salt Lake City, UT 84114-5801

Change of Name – Mobil Oil Corporation to  
ExxonMobil Oil Corporation

Dear Mr. Thompson

Effective June 1, 2001, Mobil Oil Corporation (MOC) changed its name to ExxonMobil Oil Corporation (EMOC). This was a name change only; EMOC is the same corporation as Mobil Oil Corporation, but with a new name. No facility or other asset was transferred from one corporation to another by virtue of the name change. Specifically, EMOC will remain the owner and operator of its existing exploration and production oil and gas properties and facilities, as well as relevant permits.

There is no change to the name of Exxon Mobil Corporation, the ultimate shareholder of EMOC.

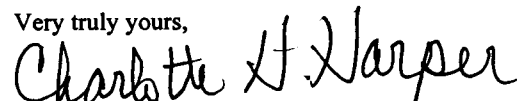
Please note the change of name of MOC to ExxonMobil Oil Corporation in your records pertaining to any MOC permits.

The Federal Identification Number for MOC (13-5401570) will remain the same for EMOC.

A copy of the Certification, Bond Rider and a list of wells are attached.

If you have any questions please feel free to call Joel Talavera at 713-431-1010

Very truly yours,



Charlotte H. Harper  
Permitting Supervisor

ExxonMobil Production Company  
a division of Exxon Mobil Corporation,  
acting for ExxonMobil Oil Corporation

RECEIVED

JUN 29 2001

DIVISION OF  
OIL, GAS AND MINING





IN REPLY REFER TO:

# United States Department of the Interior

BUREAU OF INDIAN AFFAIRS

~~XXXXXXXXXXXX~~  
 Navajo Area Office  
**NAVAJO REGION**

 P.O. Box 1060  
 Gallup, New Mexico 87305-1060
**AUG 30 2001**

RRES/543

## CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Charlotte H. Harper, Permitting Supervisor  
 Exxon Mobil Production Company  
 U. S. West  
 P. O. Box 4358  
 Houston, TX 77210-4358

Dear Ms. Harper:

This is to acknowledge receipt of your company's name change from Mobil Oil Corporation to ExxonMobil Oil Corporation effective June 1, 2001. The receipt of documents includes the Name Change Certification, current listing of Officers and Directors, Listing of Leases, Financial Statement, filing fees of \$75.00 and a copy of the Rider for Bond Number 8027 31 97. There are no other changes.

Please note that we will provide copies of these documents to other concerned parties. If you need further assistance, you may contact Ms. Bertha Spencer, Realty Specialist, at (928) 871-5938.

Sincerely,

DENNETT DENETSONE

Regional Realty Officer

cc: BLM, Farmington Field Office w/enclosures ✓  
 Navajo Nation Minerals Office, Attn: Mr. Akhtar Zaman, Director/w enclosures

<b>MINERAL RESOURCES</b>	
ADM 1	<i>Q/MC</i>
NATV AMIN COORD	_____
SOLID MIN TEAM	_____
PETRO MIN TEAM	<i>2</i>
O & G INSPECT TEAM	_____
ALL TEAM LEADERS	_____
LAND RESOURCES	_____
ENVIRONMENT	_____
FILES	_____

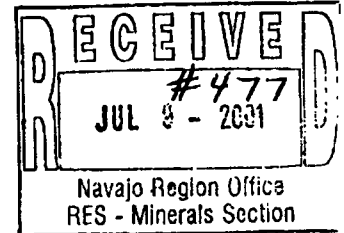
**ExxonMobil Production Company**  
U.S. West  
P.O. Box 4358  
Houston, Texas 77210-4358

**ExxonMobil**  
*Production*

June 27, 2001

Certified Mail  
Return Receipt Requested

Ms. Genni Denetsone  
United States Department of the Interior  
Bureau of Indian Affairs, Navajo Region  
Real Estate Services  
P. O. Box 1060  
Gallup, New Mexico 87305-1060  
Mail Code 543



Change of Name -  
Mobil Oil Corporation to  
ExxonMobil Oil Corporation

Dear Ms. Denetsone:

Effective June 1, 2001, Mobil Oil Corporation (MOC) changed its name to ExxonMobil Oil Corporation (EMOC). This was a name change only; EMOC is the same corporation as Mobil Oil Corporation, but with a new name. No facility or other asset was transferred from one corporation to another by virtue of the name change. Specifically, EMOC will remain the owner and operator of its existing exploration and production oil and gas properties and facilities, as well as relevant permits.

There is no change to the name of Exxon Mobil Corporation, the ultimate shareholder of EMOC.

Please note the change of name of MOC to ExxonMobil Oil Corporation in your records pertaining to any MOC permits.

The Federal Identification Number for MOC (13-5401570) will remain the same for EMOC.

Attached is the Name Change Certification, Current listing of Officers and Directors, Filing Fee of \$75/-, Listing of Leases, Financial Statement and a copy of the Rider for Bond number 8027 31 97. The original Bond Rider has been sent to Ms. Barbar Davis at your Washington Office.

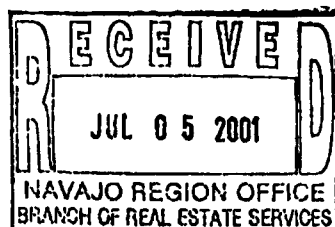
If you have any questions, please contact Alex Correa at (713) 431-1012.

Very truly yours,

*Charlotte H. Harper*

Charlotte H. Harper  
Permitting Supervisor

Attachments



ExxonMobil Production Company  
a division of Exxon Mobil Corporation,  
acting for ExxonMobil Oil Corporation

NOTE: Check forwarded to Ella Isaac

Bureau of Indian Affairs  
Navajo Region Office  
Attn: RRES - Mineral and Mining Section  
P.O. Box 1060  
Gallup, New Mexico 87305-1060

Gentlemen:

The current listing of officers and director of ExxonMobil Oil Corporation (Name of Corporation), of New York (State) is as follows:

#### OFFICERS

President	<u>F.A. Risch</u>	Address <u>5959 Las Colinas Blvd. Irving, TX 75039</u>
Vice President	<u>K.T. Koonce</u>	Address <u>800 Bell Street Houston, TX 77002</u>
Secretary	<u>F.L. Reid</u>	Address <u>5959 Las Colinas Blvd. Irving, TX 75039</u>
Treasure	<u>B.A. Maher</u>	Address <u>5959 Las Colinas Blvd. Irving, TX 75039</u>

#### DIRECTORS

Name	<u>D.D. Humphreys</u>	Address <u>5959 Las Colinas Blvd. Irving, TX 75039</u>
Name	<u>P.A. Hanson</u>	Address <u>5959 Las Colinas Blvd. Irving, TX 75039</u>
Name	<u>T.P. Townsend</u>	Address <u>5959 Las Colinas Blvd. Irving, TX 75039</u>
Name	<u>B.A. Maher</u>	Address <u>5959 Las Colinas Blvd. Irving, TX 75039</u>
Name	<u>F.A. Risch</u>	Address <u>5959 Las Colinas Blvd. Irving, TX 75039</u>


Sincerely,



Alex Correa

This is to certify that the above information pertaining to ExxonMobil Oil Corporation (Corporation) is true and correct as evidenced by the records and accounts covering business for the State of Utah and in the custody of Corporation Service Company (Agent), Phone: 1 (800) 927-9800 whose business address is One Utah Center, 201 South Main Street, Salt Lake City, Utah 84111-2218



  
\_\_\_\_\_  
Signature  
AGENT AND ATTORNEY IN FACT  
\_\_\_\_\_  
Title

SAL

**CERTIFICATION**

I, the undersigned Assistant Secretary of ExxonMobil Oil Corporation. (formerly Mobil Oil Corporation), a corporation organized and existing under the laws of the State of New York, United States of America, DO HEREBY CERTIFY, That, the following is a true and exact copy of the resolutions adopted by the Board of Directors on May 22, 2001:

**CHANGE OF COMPANY NAME**

WHEREAS, the undersigned Directors of the Corporation deem it to be in the best interest of the Corporation to amend the Certificate of Incorporation of the Corporation to change the name and principal office of the Corporation:

NOW THEREFORE BE IT RESOLVED, That Article 1st relating to the corporate name is hereby amended to read as follows:

"1st The corporate name of said Company shall be,

ExxonMobil Oil Corporation",

FURTHER RESOLVED, That the amendment of the Corporation's Certificate of Incorporation referred to in the preceding resolutions be submitted to the sole shareholder of the Corporation entitled to vote thereon for its approval and, if such shareholder gives its written consent, pursuant to Section 803 of the Business Corporation Law of the State of New York, approving such amendment, the proper officers of the Corporation be, and they hereby are, authorized to execute in the name of the Corporation the Certificate of Amendment of Certificate of Incorporation, in the form attached hereto;

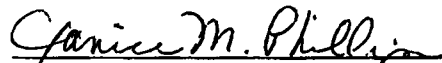
FURTHER RESOLVED, That the proper officers of the Corporation be and they hereby are authorized and directed to deliver, file and record in its behalf, the Certificate of Amendment of Certificate of Incorporation, and to take such action as may be deemed necessary or advisable to confirm and make effective in all respects the change of this Company's name to EXXONMOBIL OIL CORPORATION.

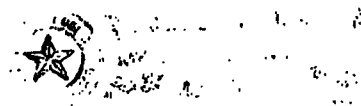
WITNESS, my hand and the seal of the Corporation at Irving, Texas, this 8th day of June, 2001.

  
Assistant Secretary

COUNTY OF DALLAS )  
STATE OF TEXAS )  
UNITED STATES OF AMERICA )

Sworn to and subscribed before me at Irving, Texas, U. S. A. on this the 8th day of June, 2001.

  
Notary Public



**LISTING OF LEASES OF MOBIL OIL CORPORATION****Lease Number**

- 1) 14-20-0603-6504
- 2) 14-20-0603-6505
- 3) 14-20-0603-6506
- 4) 14-20-0603-6508
- 5) 14-20-0603-6509
- 6) 14-20-0603-6510
- 7) 14-20-0603-7171
- 8) 14-20-0603-7172A
- 9) 14-20-600-3530
- 10) 14-20-603-359
- 11) 14-20-603-368
- 12) 14-20-603-370
- 13) 14-20-603-370A
- 14) 14-20-603-372
- 15) 14-20-603-372A
- 16) 14-20-603-4495
- 17) 14-20-603-5447
- 18) 14-20-603-5448
- 19) 14-20-603-5449
- 20) 14-20-603-5450
- 21) 14-20-603-5451

6/1/01

**CHUBB GROUP OF INSURANCE COMPANIES**

One Chubb Place, Suite 1900, Houston, Texas 77027-3301  
Houston, TX 77027-4600 • Fax: (713) 297-4750

*NEW Bond*

**FEDERAL INSURANCE COMPANY RIDER**  
to be attached to and form a part of

**BOND NO 8027 31 97**

wherein

**Mobil Oil Corporation and Mobil Exploration and Producing U.S., Inc. is**  
named as Principal and

**FEDERAL INSURANCE COMPANY AS SURETY,**

**in favor of United States of America, Department of the Interior**  
**Bureau of Indian Affairs**

**in the amount of \$150,000.00**  
**bond date: 11/01/65**

**IT IS HEREBY UNDERSTOOD AND AGREED THAT effective June 1, 2001**  
**the name of the Principal is changed**

**FROM: Mobil Oil Corporation and Mobil Exploration and Producing U.S., Inc.**

**TO : ExxonMobil Oil Corporation**

**All other terms and conditions of this Bond are unchanged.**

**Signed, sealed and dated this 12<sup>th</sup> of June, 2001.**


**ExxonMobil Oil Corporation**

By :



**FEDERAL INSURANCE COMPANY**

By:

  
**Mary Pierson, Attorney-in-fact**

**Chubb  
Surety****POWER  
OF  
ATTORNEY****Federal Insurance Company  
Vigilant Insurance Company  
Pacific Indemnity Company****Attn.: Surety Department  
15 Mountain View Road  
Warren, NJ 07059**

Know All by These Presents, That **FEDERAL INSURANCE COMPANY**, an Indiana corporation, **VIGILANT INSURANCE COMPANY**, a New York corporation, and **PACIFIC INDEMNITY COMPANY**, a Wisconsin corporation, do each hereby constitute and appoint

**R.F. Bobo,**

Mary Pierson, Philana Berros, and Jody E. Specht of Houston, Texas-----

each as their true and lawful Attorney-in-Fact to execute under such designation in their names and to affix their corporate seals to and deliver for and on their behalf as surety thereon or otherwise, bonds and undertakings and other writings obligatory in the nature thereof (other than bail bonds) given or executed in the course of business, and any instruments amending or altering the same, and consents to the modification or alteration of any instrument referred to in said bonds or obligations.

In Witness Whereof, said **FEDERAL INSURANCE COMPANY**, **VIGILANT INSURANCE COMPANY**, and **PACIFIC INDEMNITY COMPANY** have each executed and attested these presents and affixed their corporate seals on this 10th day of May, 2001.

  
Kenneth C. Wendel, Assistant Secretary

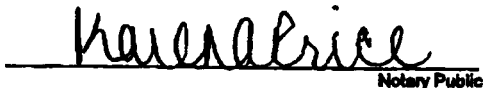
  
Frank E. Robertson, Vice President

STATE OF NEW JERSEY } ss.  
County of Somerset

On this 10th day of May, 2001, before me, a Notary Public of New Jersey, personally came Kenneth C. Wendel, to me known to be Assistant Secretary of **FEDERAL INSURANCE COMPANY**, **VIGILANT INSURANCE COMPANY**, and **PACIFIC INDEMNITY COMPANY**, the companies which executed the foregoing Power of Attorney, and the said Kenneth C. Wendel being by me duly sworn, did depose and say that he is Assistant Secretary of **FEDERAL INSURANCE COMPANY**, **VIGILANT INSURANCE COMPANY**, and **PACIFIC INDEMNITY COMPANY** and knows the corporate seals thereof, that the seals affixed to the foregoing Power of Attorney are such corporate seals and were thereto affixed by authority of the By-Laws of said Companies; and that he signed said Power of Attorney as Assistant Secretary of said Companies by like authority; and that he is acquainted with Frank E. Robertson, and knows him to be Vice President of said Companies; and that the signature of Frank E. Robertson, subscribed to said Power of Attorney is in the genuine handwriting of Frank E. Robertson, and was thereto subscribed by authority of said Companies in his presence.



Notary Public State of New Jersey  
No. 2231647  
Commission Expires Oct. 28, 2004

  
Notary Public

Extract from the By-Laws of **FEDERAL INSURANCE COMPANY**, **VIGILANT INSURANCE COMPANY**, and **PACIFIC INDEMNITY COMPANY**:

"All powers of attorney for and on behalf of the Company may and shall be executed in the name and on behalf of the Company, either by the Chairman or the President or a Vice President or an Assistant Vice President, jointly with the Secretary or an Assistant Secretary, under their respective designations. The signature of such officers may be engraved, printed or lithographed. The signature of each of the following officers: Chairman, President, any Vice President, any Assistant Vice President, any Secretary, any Assistant Secretary and the seal of the Company may be affixed by facsimile to any power of attorney or to any certificate relating thereto appointing Assistant Secretaries or Attorneys-in-Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, and any such power of attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by such facsimile signature and facsimile seal shall be valid and binding upon the Company with respect to any bond or undertaking to which it is attached."

I, Kenneth C. Wendel, Assistant Secretary of **FEDERAL INSURANCE COMPANY**, **VIGILANT INSURANCE COMPANY**, and **PACIFIC INDEMNITY COMPANY** (the "Companies") do hereby certify that

- (i) the foregoing extract of the By-Laws of the Companies is true and correct,
- (ii) the Companies are duly licensed and authorized to transact surety business in all 50 of the United States of America and the District of Columbia and are authorized by the U. S. Treasury Department; further, Federal and Vigilant are licensed in Puerto Rico and the U. S. Virgin Islands, and Federal is licensed in American Samoa, Guam, and each of the Provinces of Canada except Prince Edward Island; and
- (iii) the foregoing Power of Attorney is true, correct and in full force and effect.

Given under my hand and seals of said Companies at Warren, NJ this 12th day of June, 2001



  
Kenneth C. Wendel, Assistant Secretary

IN THE EVENT YOU WISH TO NOTIFY US OF A CLAIM, VERIFY THE AUTHENTICITY OF THIS BOND OR NOTIFY US OF ANY OTHER MATTER, PLEASE CONTACT US AT ADDRESS LISTED ABOVE, OR BY  
Telephone (908) 903-3485 Fax (908) 903-3656 e-mail: surety@chubb.com

CSC

5184334741

06/01 '01 08:46 NO.410 03/05

CSC

06/01 '01 09:06 NO.135 02/04

F010601000187

**CERTIFICATE OF AMENDMENT  
OF  
CERTIFICATE OF INCORPORATION  
OF  
MOBIL OIL CORPORATION**

CSC 45

(Under Section 805 of the Business Corporation Law)

Pursuant to the provisions of Section 805 of the Business Corporation Law, the undersigned President and Secretary, respectively, of Mobil Oil Corporation hereby certify:

**FIRST:** That the name of the corporation is **MOBIL OIL CORPORATION** and that said corporation was incorporated under the name of Standard Oil Company of New York.

**SECOND:** That the Certificate of Incorporation of the corporation was filed by the Department of State, Albany, New York, on the 10th day of August, 1882.

**THIRD:** That the amendments to the Certificate of Incorporation effected by this Certificate are as follows:

(a) Article 1st of the Certificate of Incorporation, relating to the corporate name, is hereby amended to read as follows:

"1st The corporate name of said Company shall be,  
**ExxonMobil Oil Corporation**,"

(b) Article 7th of the Certificate of Incorporation, relating to the office of the corporation is hereby amended to read as follows:

The office of the corporation within the State of New York is to be located in the County of Albany. The Company shall have offices at such other places as the Board of Directors may from time to time determine.



CSC  
CSC

5184334741

06/01 '01 08:47 NO. 410 04/05  
06/01 '01 07:06 NO. 133 03/04

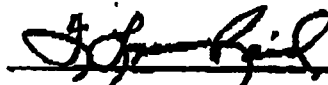
FOURTH: That the amendments to the Certificate of Incorporation were authorized by the Board of Directors followed by the holder of all outstanding shares entitled to vote on amendments to the Certificate of Incorporation by written consent of the sole shareholder dated May 22, 2001.

IN WITNESS WHEREOF, this Certificate has been signed this 22nd Day of May, 2001.

  
\_\_\_\_\_  
F. A. Risch, President 

STATE OF TEXAS       )  
COUNTY OF DALLAS    )

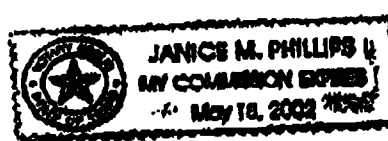
F. L. REID, being duly sworn, deposes and says that he is the Secretary of MOBIL OIL CORPORATION, the corporation mentioned and described in the foregoing instrument; that he has read and signed the same and that the statements contained therein are true.

  
\_\_\_\_\_  
F. L. REID, Secretary

SUBSCRIBED AND SWORN TO before me, the undersigned authority, on this the 22nd day of May, 2001.

[SEAL]

  
\_\_\_\_\_  
NOTARY PUBLIC, STATE OF TEXAS



CSC  
CSC

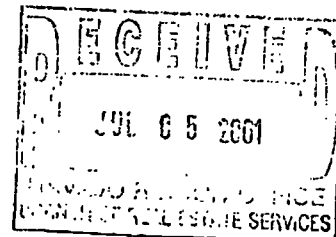
5184334741

06/01 '01 09:01 NO. 411 02/02  
06/01 '01 09:06 NO. 133 04/04  
**F010601000187****CSC 45****CERTIFICATE OF AMENDMENT****OF****MOBIL OIL CORPORATION**

Under Section 805 of the Business Corporation Law

**STATE OF NEW YORK  
DEPARTMENT OF STATE**Filed by: EXXONMOBIL CORPORATION  
(Name)

FILED JUN 01 2001

6939 Las Colinas Blvd.  
(Mailing address)TAX \$ \_\_\_\_\_  
BY: SACIrving, TX 75039-2298  
(City, State and Zip code)ny / AlbanyCust Ref # 16557817PJ**010601000195**

=&gt; CSC

,TEL=5184334741

06/01'01 08:19

*State of New York }  
Department of State } ss:*

*I hereby certify that the annexed copy has been compared with the original document in the custody of the Secretary of State and that the same is a true copy of said original.*

*Witness my hand and seal of the Department of State on* **JUN 01 2001**



*Special Deputy Secretary of State*

## OPERATOR CHANGE WORKSHEET

## ROUTING

- |         |
|---------|
| 1. GLH  |
| 2. CDW  |
| 3. FILE |

Change of Operator (Well Sold)

Designation of Agent

**X Operator Name Change**

Merger

The operator of the well(s) listed below has changed, effective: **06-01-2001**

<b>FROM: (Old Operator):</b>	<b>TO: (New Operator):</b>
MOBIL EXPLORATION & PRODUCTION	EXXONMOBIL OIL CORPORATION
Address: P O BOX DRAWER "G"	Address: U S WEST P O BOX 4358
CORTEZ, CO 81321	HOUSTON, TX 77210-4358
Phone: 1-(970)-564-5212	Phone: 1-(713)-431-1010
Account No. N7370	Account No. N1855

CA No.

Unit: **MCELMO CREEK**

## WELL(S)

NAME	SEC TWN RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
MCELMO CREEK Q-12A	32-40S-25E	43-037-31677	5980	INDIAN	WI	A
NAVAJO TRIBE P-20 (R-09)	33-40S-25E	43-037-16147	5980	INDIAN	WI	A
NAVAJO P-9 (S-12)	33-40S-25E	43-037-16150	5980	INDIAN	WI	A
NAVAJO TRIBE P-13 (U-12)	33-40S-25E	43-037-16155	5980	INDIAN	WI	A
MCELMO CR T-09A	33-40S-25E	43-037-30080	5980	INDIAN	WI	A
NAVAJO TRIBE P-15 (S-10)	33-40S-25E	43-037-16375	99990	INDIAN	WI	A
NAVAJO TRIBE P-16 (U-10)	33-40S-25E	43-037-16381	99990	INDIAN	WI	A
MCELMO CR R-11A	33-40S-25E	43-037-30179	99990	INDIAN	WI	A
MCELMO CREEK G-14	01-41S-24E	43-037-16143	5980	INDIAN	WI	A
NAVAJO TRIBE R-5 (MCELMO G-16)	01-41S-24E	43-037-16144	5980	INDIAN	WI	A
MCELMO CREEK I-14	01-41S-24E	43-037-16145	5980	INDIAN	WI	A
NAVAJO 13-2 (MCELMO H-15)	01-41S-24E	43-037-15495	99990	INDIAN	WI	A
NAVAJO TRIBE R-4 (MCELMO F-13)	01-41S-24E	43-037-16345	99990	INDIAN	WI	A
NAVAJO TRIBE R-2 (MCELMO H-13)	01-41S-24E	43-037-16351	99990	INDIAN	WI	A
MCELMO CREEK U F-15A	01-41S-24E	43-037-31149	99990	INDIAN	WI	A
MCELMO CREEK E-16	02-41S-24E	43-037-15616	5980	INDIAN	WI	A
MCELMO CREEK C-14	02-41S-24E	43-037-16265	5980	INDIAN	WI	A
MCELMO CREEK E-14	02-41S-24E	43-037-16268	5980	INDIAN	WI	A
NAVAJO TRIBE 2B (MCELMO D-13)	02-41S-24E	43-037-16267	99990	INDIAN	WI	A
NAVAJO C-2 (MCELMO D-15)	02-41S-24E	43-037-16341	99990	INDIAN	WI	A

## OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 06/29/2001
2. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 06/29/2001
3. The new company has been checked through the **Department of Commerce, Division of Corporations Database** on: 04/09/2002
4. Is the new operator registered in the State of Utah: YES Business Number: 579865-0143
5. If **NO**, the operator was contacted on: N/A

6. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BIA-06/01/01

7. **Federal and Indian Units:**

The BLM or BIA has approved the successor of unit operator for wells listed on: 06/01/2001

8. **Federal and Indian Communization Agreements ("CA"):**

The BLM or BIA has approved the operator for all wells listed within a CA on: N/A

9. **Underground Injection Control ("UIC")**

The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: 04/16/2002

**NOTE: EPA ISSUES UIC PERMITS**

**DATA ENTRY:**

1. Changes entered in the **Oil and Gas Database** on: 04/16/2002

2. Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 04/16/2002

3. Bond information entered in RBDMS on: N/A

4. Fee wells attached to bond in RBDMS on: N/A

**STATE WELL(S) BOND VERIFICATION:**

1. State well(s) covered by Bond Number: N/A

**FEDERAL WELL(S) BOND VERIFICATION:**

1. Federal well(s) covered by Bond Number: N/A

**INDIAN WELL(S) BOND VERIFICATION:**

1. Indian well(s) covered by Bond Number: 80273197

**FEE WELL(S) BOND VERIFICATION:**

1. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number N/A

2. The **FORMER** operator has requested a release of liability from their bond on: N/A  
The Division sent response by letter on: N/A

**LEASE INTEREST OWNER NOTIFICATION:**

3. (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: N/A

**COMMENTS:**

Division of Oil, Gas and Mining  
**OPERATOR CHANGE WORKSHEET**

**ROUTING**

1. DJJ

2. CDW

**X Change of Operator (Well Sold)**

Operator Name Change/Merger

The operator of the well(s) listed below has changed, effective:		<b>6/1/2006</b>		
<table border="1"> <tr> <td> <b>FROM:</b> (Old Operator):  N1855-ExxonMobil Oil Corporation  PO Box 4358  Houston, TX 77210-4358  Phone: 1 (281) 654-1936 </td> <td> <b>TO:</b> ( New Operator):  N2700-Resolute Natural Resources Company  1675 Broadway, Suite 1950  Denver, CO 80202  Phone: 1 (303) 534-4600 </td> </tr> </table>			<b>FROM:</b> (Old Operator): N1855-ExxonMobil Oil Corporation PO Box 4358 Houston, TX 77210-4358 Phone: 1 (281) 654-1936	<b>TO:</b> ( New Operator): N2700-Resolute Natural Resources Company 1675 Broadway, Suite 1950 Denver, CO 80202 Phone: 1 (303) 534-4600
<b>FROM:</b> (Old Operator): N1855-ExxonMobil Oil Corporation PO Box 4358 Houston, TX 77210-4358 Phone: 1 (281) 654-1936	<b>TO:</b> ( New Operator): N2700-Resolute Natural Resources Company 1675 Broadway, Suite 1950 Denver, CO 80202 Phone: 1 (303) 534-4600			
<b>CA No.</b>	<b>Unit:</b>	<b>MC ELMO (UIC)</b>		

**OPERATOR CHANGES DOCUMENTATION**

Enter date after each listed item is completed

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 4/21/2006
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 4/24/2006
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 6/7/2006
- Is the new operator registered in the State of Utah: YES Business Number: 5733505-0143
- If **NO**, the operator was contacted on: \_\_\_\_\_
- (R649-9-2)Waste Management Plan has been received on: requested
- Inspections of LA PA state/fee well sites complete on: n/a
- Reports current for Production/Disposition & Sundries on: ok
- Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM n/a BIA not yet
- Federal and Indian Units:**  
The BLM or BIA has approved the successor of unit operator for wells listed on: not yet
- Federal and Indian Communization Agreements ("CA"):**  
The BLM or BIA has approved the operator for all wells listed within a CA on: n/a
- Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: 6/12/2006

**DATA ENTRY:**

- Changes entered in the **Oil and Gas Database** on: 6/22/2006
- Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 6/22/2006
- Bond information entered in RBDMS on: n/a
- Fee/State wells attached to bond in RBDMS on: n/a
- Injection Projects to new operator in RBDMS on: 6/22/2006
- Receipt of Acceptance of Drilling Procedures for APD/New on: n/a

**BOND VERIFICATION:**

- Federal well(s) covered by Bond Number: n/a
- Indian well(s) covered by Bond Number: PA002769
- (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number n/a
- The **FORMER** operator has requested a release of liability from their bond on: n/a  
The Division sent response by letter on: n/a

**LEASE INTEREST OWNER NOTIFICATION:**

- (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: n/a

**COMMENTS:**

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

UIC FORM 5

TRANSFER OF AUTHORITY TO INJECT

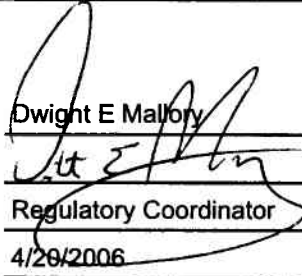
Well Name and Number See attached list	API Number Attached
Location of Well Footage : See attached list County : San Juan QQ, Section, Township, Range: State : UTAH	Field or Unit Name McElmo Creek Unit Lease Designation and Number See attached list

EFFECTIVE DATE OF TRANSFER: 6/1/2006

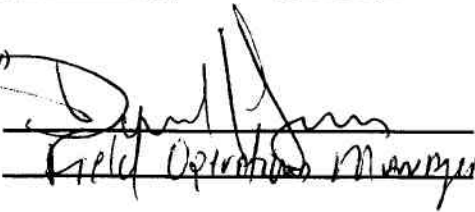
CURRENT OPERATOR

Company: Exxon Mobil Oil Corporation Name: \_\_\_\_\_  
Address: PO Box 4358 Signature: \_\_\_\_\_  
city Houston state TX zip 77210-4358 Title: \_\_\_\_\_  
Phone: (281) 654-1936 Date: \_\_\_\_\_  
Comments: Exxon Mobil has submitted a separate, signed copy of UIC Form 5

NEW OPERATOR

Company: Resolute Natural Resources Company Name: Dwight E Mallory  
Address: 1675 Broadway, Suite 1950 Signature:   
city Denver state CO zip 80202 Title: Regulatory Coordinator  
Phone: (303) 534-4600 Date: 4/26/2006  
Comments: A list of affected UIC wells is attached.  
New bond numbers for these wells are:  
BIA Bond # PA002769 and US EPA Bond # B001252

(This space for State use only)

Transfer approved by:   
Title: Field Operations Manager

Approval Date: 6/12/06

Comments:

RECEIVED  
APR 24 2006  
DIV. OF OIL, GAS & MINING

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5. LEASE DESIGNATION AND SERIAL NUMBER:

See attached list

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

Navajo Tribe

7. UNIT or CA AGREEMENT NAME:

McElmo Creek Unit

8. WELL NAME and NUMBER:

See attached list

9. API NUMBER:

Attached

10. FIELD AND POOL, OR WILDCAT:

Greater Aneth

1. TYPE OF WELL

OIL WELL ☐

GAS WELL ☐

OTHER Unit Agreement

2. NAME OF OPERATOR:

Resolute Natural Resources Company

N2700

3. ADDRESS OF OPERATOR:

1675 Broadway, Suite 1950

CITY

Denver

STATE

CO

ZIP

80202

PHONE NUMBER:

(303) 534-4600

4. LOCATION OF WELL

FOOTAGES AT SURFACE: See attached list

COUNTY: San Juan

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:

STATE:

UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input checked="" type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Effective June 1, 2006 Exxon Mobil Oil Corporation resigns as operator of the McElmo Creek Unit. Also effective June 1, 2006 Resolute Natural Resources Company is designated as successor operator of the McElmo Creek Unit.

A list of affected producing and water source wells is attached. A separate of affected injection wells is being submitted with UIC Form 5, Transfer of Authority to Inject.

As of the effective date, bond coverage for the affected wells will transfer to BIA Bond # PA002769.

NAME (PLEASE PRINT)

Dwight E. Mallory

TITLE

Regulatory Coordinator

SIGNATURE

DATE

4/20/2006

(This space for State use only)

APPROVED 6122106

Earlene Russell

Division of Oil, Gas and Mining

Earlene Russell, Engineering Technician

(See Instructions on Reverse Side)

RECEIVED

APR 24 2006

DIV. OF OIL, GAS & MINING



STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>Injection</u>		5. LEASE DESIGNATION AND SERIAL NUMBER:  
2. NAME OF OPERATOR: ExxonMobil Oil Corporation <u>N1855</u>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: <u>Ship Rock</u>
3. ADDRESS OF OPERATOR: P.O. Box 4358 CITY <u>Houston</u> STATE <u>TX</u> ZIP <u>77210-4358</u>		7. UNIT or CA AGREEMENT NAME: <u>UTU68930A</u>
4. LOCATION OF WELL FOOTAGES AT SURFACE: _____		8. WELL NAME and NUMBER: <u>McElmo Creek</u>
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: _____		9. API NUMBER: <u>attached</u>
COUNTY: <u>San Juan</u>		10. FIELD AND POOL, OR WILDCAT: <u>Aneth</u>
STATE: <u>UTAH</u>		

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: <u>6/1/2006</u>	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input checked="" type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

ExxonMobil Oil Corporation is transferring operatorship of Greater Aneth field, McElmo Creek lease to Resolute Natural Resources Company. All change of operator notices should be made effective as of 7:00 AM MST on June 1, 2006.

Attached please find a listing of injection wells included in the transfer.

NAME (PLEASE PRINT) <u>Laurie Kilbride</u>	TITLE <u>Permitting Supervisor</u>
SIGNATURE <u>Laurie B. Kilbride</u>	DATE <u>4/19/2006</u>

(This space for State use only)

**APPROVED** 6/22/06  
Earlene Russell  
Division of Oil, Gas and Mining  
Earlene Russell, Engineering Technician

(See Instructions on Reverse Side)

**RECEIVED**  
**APR 21 2006**

DIV. OF OIL, GAS & MINING

**GREATER ANETH FIELD UIC WELL LIST**  
**McElmo Creek lease, San Juan County, Utah**

Reg Lease Name	Well ID	API Num	Status	Reg Lease #	Surface Location						
					Qtr 1	Qtr 2	Sec	TN	RNG	NS Foot	EW Foot
MCELMO CREEK	H11	430371635000S1	Active	14-20-0603-6145	NW	SE	36	40S	24E	1855FSL	2100FEL
MCELMO CREEK	I12	430371561900S1	Active	14-20-0603-6145	SE	SE	36	40S	24E	0595FSL	0595FEL
MCELMO CREEK	F11	430371561700S1	Shut-in	14-20-0603-6146	NW	SW	36	40S	24E	1885FSL	0820FWL
MCELMO CREEK	G12	430371561800S1	Active	14-20-0603-6146	SE	SW	36	40S	24E	1910FNL	2051FWL
MCELMO CREEK	D15	430371634100S1	Active	14-20-0603-6147	NW	SE	2	41S	24E	1830FSL	1830FEL
MCELMO CREEK	A17	430371633800S1	Active	14-20-0603-6148	NE	NE	10	41S	24E	1270FNL	0660FEL
MCELMO CREEK	C14	430371626500S1	Active	14-20-0603-6509	SE	NW	2	41S	24E	2140FNL	2140FWL
MCELMO CREEK	D13	430371626700S1	Active	14-20-0603-6510	NW	NE	2	41S	24E	0820FNL	1920FEL
MCELMO CREEK	E14	430371626800S1	Active	14-20-0603-6510	SE	NE	2	41S	24E	2050FNL	0500FEL
MCELMO CREEK	T08	430371637700S1	Shut-in	14-20-603-2048A	SW	SE	28	40S	25E	0660FSL	1980FEL
MCELMO CREEK	R09	430371614700S1	Active	14-20-603-2057	NW	NW	33	40S	25E	0500FNL	0625FWL
MCELMO CREEK	R11A	430373017900S1	Active	14-20-603-2057	NW	SW	33	40S	25E	2030FSL	0680FWL
MCELMO CREEK	R13	430371614800S1	Active	14-20-603-2057	NW	NW	4	41S	25E	0660FNL	0660FWL
MCELMO CREEK	R15	430371614900S1	Active	14-20-603-2057	NW	SW	4	41S	25E	1990FSL	0500FWL
MCELMO CREEK	S10	430371637500S1	Active	14-20-603-2057	SE	NW	33	40S	25E	1980FNL	1980FWL
MCELMO CREEK	S12	430371615000S1	Active	14-20-603-2057	SE	SW	33	40S	25E	0645FSL	2140FWL
MCELMO CREEK	S14	430371615100S1	Active	14-20-603-2057	SE	NW	4	41S	25E	2005FNL	1820FWL
MCELMO CREEK	S16	430371615200S1	Active	14-20-603-2057	SE	SW	4	41S	25E	0700FSL	1820FWL
MCELMO CREEK	T09A	430373008000S1	Active	14-20-603-2057	NW	NE	33	40S	25E	0940FNL	2035FEL
MCELMO CREEK	T13	430371637800S1	Active	14-20-603-2057	NW	NE	4	41S	25E	0500FNL	2090FEL
MCELMO CREEK	T15	430371637900S1	Active	14-20-603-2057	NW	SE	4	41S	25E	1880FSL	1890FEL
MCELMO CREEK	U10	430371638100S1	Active	14-20-603-2057	SE	NE	33	40S	25E	1980FNL	0610FSL
MCELMO CREEK	U12	430371615500S1	Active	14-20-603-2057	SE	SE	33	40S	25E	0660FSL	0805FEL
MCELMO CREEK	U14	430371615600S1	Active	14-20-603-2057	SE	NE	4	41S	25E	1980FNL	0660FEL
MCELMO CREEK	U16	430371615700S1	Active	14-20-603-2057	SE	SE	4	41S	25E	0550FSL	0745FEL
MCELMO CREEK	V13	430371638300S1	Active	14-20-603-2057	NW	NW	3	41S	25E	0660FNL	0660FWL
MCELMO CREEK	V15	430371638400S1	Active	14-20-603-2057	NW	SW	3	41S	25E	1980FSL	0560FWL
MCELMO CREEK	J17	430371549800S1	Active	14-20-603-263	NW	NW	7	41S	25E	0820FNL	0550FWL
MCELMO CREEK	J19	430371635600S1	Active	14-20-603-263	NW	SW	7	41S	25E	2056FNL	1997FWL
MCELMO CREEK	J21	430371549900S1	Active	14-20-603-263	NW	NW	18	41S	25E	0400FNL	0575FWL
MCELMO CREEK	K18	430371635700S1	Active	14-20-603-263	SE	NW	7	41S	25E	1830FNL	1808FWL
MCELMO CREEK	K20	430371550300S1	Active	14-20-603-263	SE	SW	7	41S	25E	0660FSL	1810FWL
MCELMO CREEK	K22X	430373040000S1	Active	14-20-603-263	SE	NW	18	41S	25E	2082FNL	1588FWL
MCELMO CREEK	K24	430371635800S1	Active	14-20-603-263	SE	SW	18	41S	25E	0660FSL	1801FWL
MCELMO CREEK	L17	430371636000S1	Active	14-20-603-263	NW	NE	7	41S	25E	0660FNL	1980FEL
MCELMO CREEK	L19	430371550500S1	Active	14-20-603-263	NW	SE	7	41S	25E	1860FSL	2140FEL
MCELMO CREEK	L21	430371550600S1	Active	14-20-603-263	NW	NE	18	41S	25E	0820FNL	1980FEL
MCELMO CREEK	L23	430371550700S1	Active	14-20-603-263	NW	SE	18	41S	25E	1980FSL	1980FEL
MCELMO CREEK	M18	430371551000S1	Active	14-20-603-263	SE	NE	7	41S	25E	1850FNL	0790FEL
MCELMO CREEK	M20	430371551100S1	Shut-in	14-20-603-263	SE	SE	7	41S	25E	0660FSL	0660FEL
MCELMO CREEK	N17	430371551400S1	Active	14-20-603-263	NW	NW	8	41S	25E	0810FNL	0660FWL
MCELMO CREEK	N19	430371551500S1	Active	14-20-603-263	NW	SW	8	41S	25E	1850FSL	0500FWL
MCELMO CREEK	N21	430371551600S1	Active	14-20-603-263	NW	NW	17	41S	25E	0660FNL	0660FWL
MCELMO CREEK	O18	430371551700S1	Active	14-20-603-263	SE	NW	8	41S	25E	1830FNL	1890FWL
MCELMO CREEK	P17	430371551900S1	Active	14-20-603-263	NW	NE	8	41S	25E	0660FNL	1980FEL

**GREATER ANETH FIELD UIC WELL LIST**  
**McElmo Creek lease, San Juan County, Utah**

Reg Lease Name	Well ID	API Num	Status	Reg Lease #	Surface Location						
					Qtr 1	Qtr 2	Sec	TN	RNG	NS Foot	EW Foot
MCELMO CREEK	P19	430371552000S1	Active	14-20-603-263	NW	SE	8	41S	25E	2140FSL	1980FEL
MCELMO CREEK	P21	430371636900S1	Active	14-20-603-263	NW	NE	17	41S	25E	0660FNL	1980FEL
MCELMO CREEK	P23A	430373143900S1	Active	14-20-603-263	SW	NE	17	41S	25E	2531FNL	2325FEL
MCELMO CREEK	L25	430371550800S1	Active	14-20-603-264	NW	NE	19	41S	25E	0660FNL	1980FEL
MCELMO CREEK	R17	430371597600S1	Active	14-20-603-359	NW	NW	9	41S	25E	0740FNL	0560FWL
MCELMO CREEK	R19	430371637300S1	Active	14-20-603-359	NW	SW	9	41S	25E	1980FSL	0660FWL
MCELMO CREEK	R21	430371637400S1	Active	14-20-603-359	NW	NW	16	41S	25E	0511FNL	0562FWL
MCELMO CREEK	T17	430371638000S1	Active	14-20-603-359	NW	NE	9	41S	25E	0675FNL	1933FEL
MCELMO CREEK	E21	430371634300S1	Active	14-20-603-370	NE	NE	14	41S	24E	0660FNL	0660FEL
MCELMO CREEK	E23	430371634400S1	Active	14-20-603-370	NE	SE	14	41S	24E	2031FSL	0711FEL
MCELMO CREEK	G21A	430373097400S1	Active	14-20-603-370	NE	NW	13	41S	24E	0867FNL	1883FWL
MCELMO CREEK	G23	430371634800S1	Shut-in	14-20-603-370	NE	SW	13	41S	24E	2092FSL	1899FWL
MCELMO CREEK	G25	430371634900S1	Active	14-20-603-370	NE	NW	24	41S	24E	0660FNL	1980FWL
MCELMO CREEK	I23	430371635200S1	Active	14-20-603-370	NE	SE	13	41S	24E	1980FSL	0660FEL
MCELMO CREEK	I25	430371635300S1	Active	14-20-603-370	NE	NE	24	41S	24E	0530FNL	0820FEL
MCELMO CREEK	J11	430371635400S1	TA'd	14-20-603-372	NW	SW	31	40S	25E	1980FSL	0660FWL
MCELMO CREEK	J13	430371635500S1	Active	14-20-603-372	NW	NW	6	41S	25E	0621FNL	0580FWL
MCELMO CREEK	J15	430371595400S1	Active	14-20-603-372	NW	SW	6	41S	25E	1980FSL	0500FWL
MCELMO CREEK	K12	430371595500S1	Active	14-20-603-372	SW	SW	31	40S	25E	0670FSL	1970FWL
MCELMO CREEK	K14	430371595600S1	Active	14-20-603-372	SE	NW	6	41S	25E	1851FNL	1885FWL
MCELMO CREEK	K16	430371595700S1	Active	14-20-603-372	SE	SW	6	41S	25E	0660FSL	1816FWL
MCELMO CREEK	L09	430371635900S1	Active	14-20-603-372	NW	NE	31	40S	25E	0660FNL	1980FEL
MCELMO CREEK	L13	430371595900S1	Active	14-20-603-372	NW	NE	6	41S	25E	0778FNL	1917FEL
MCELMO CREEK	L15	430371596000S1	Active	14-20-603-372	NW	SE	6	41S	25E	1820FSL	1830FEL
MCELMO CREEK	M10	430371596100S1	Shut-in	14-20-603-372	SE	NE	31	40S	25E	1980FNL	0530FEL
MCELMO CREEK	M12	430371596200S1	Active	14-20-603-372	SE	SE	31	40S	25E	0590FSL	0585FEL
MCELMO CREEK	M14	430371596300S1	Active	14-20-603-372	SE	NE	6	41S	25E	2089FNL	0773FEL
MCELMO CREEK	M16	430371636100S1	Active	14-20-603-372	SE	SE	6	41S	25E	0660FSL	0660FEL
MCELMO CREEK	N09	430371596400S1	Shut-in	14-20-603-372	NW	NW	32	40S	25E	0628FNL	0615FWL
MCELMO CREEK	N11	430371596500S1	Active	14-20-603-372	NW	SW	32	40S	25E	2069FSL	0618FWL
MCELMO CREEK	N13	430371596600S1	Active	14-20-603-372	NW	NW	5	41S	25E	0840FNL	0505FWL
MCELMO CREEK	N15	430371636300S1	Active	14-20-603-372	NW	SW	5	41S	25E	2140FSL	820FWL
MCELMO CREEK	O12	430371596800S1	Active	14-20-603-372	SE	SW	32	40S	25E	0809FSL	1832FWL
MCELMO CREEK	O14	430371636500S1	Active	14-20-603-372	SE	NW	5	41S	25E	2056FNL	1997FWL
MCELMO CREEK	O16	430371596900S1	Active	14-20-603-372	SE	SW	5	41S	25E	0660FSL	1980FWL
MCELMO CREEK	P09	430371636700S1	Active	14-20-603-372	NW	NE	32	40S	25E	0598FNL	2100FEL
MCELMO CREEK	P11	430371597101S2	Active	14-20-603-372	NW	SE	32	40S	25E	2105FSL	2006FEL
MCELMO CREEK	P13	430371636800S1	Active	14-20-603-372	NW	NE	5	41S	25E	0610FNL	1796FWL
MCELMO CREEK	P15	430371597200S1	Active	14-20-603-372	NW	SE	5	41S	25E	1980FSL	1980FEL
MCELMO CREEK	Q10	430371597301S1	Active	14-20-603-372	SE	NE	32	40S	25E	1899FNL	0532FEL
MCELMO CREEK	Q16	430371597500S1	TA'd	14-20-603-372	SE	SE	5	41S	25E	0660FSL	0660FEL
MCELMO CREEK	F13	430371634500S1	Active	14-20-603-4032	NW	NW	1	41S	24E	0795FNL	0535FWL
MCELMO CREEK	F15A	430373114900S1	Active	14-20-603-4032	NW	SW	1	41S	24E	1920FSL	0624FWL
MCELMO CREEK	G14	430371614300S1	Active	14-20-603-4032	SE	NW	1	41S	24E	1980FNL	1980FWL
MCELMO CREEK	G16	430371614400S1	Active	14-20-603-4032	SE	SW	1	41S	24E	0820FSL	1820FWL
MCELMO CREEK	H13	430371635100S1	Active	14-20-603-4032	NW	NE	1	41S	24E	0540FNL	2110FEL
MCELMO CREEK	I-14	430371614500S1	Active	14-20-603-4032	SE	NE	1	41S	24E	1980FNL	0660FEL

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**McElmo Creek lease, San Juan County, Utah**

Reg Lease Name	Well ID	API Num	Status	Reg Lease #	Surface Location							
					Qtr 1	Qtr 2	Sec	TN	RNG	NS Foot	EW Foot	
MCELMO CREEK	F17	430371549300S1	Active	14-20-603-4039	NW	NW	12	41S	24E	0740FNL	0500FWL	
MCELMO CREEK	G18	430371549400S1	Active	14-20-603-4039	SE	NW	12	41S	24E	1980FNL	1980FWL	
MCELMO CREEK	H15	430371549500S1	Active	14-20-603-4039	NW	SE	1	41S	24E	1980FSL	1980FEL	
MCELMO CREEK	H17	430371549600S1	Active	14-20-603-4039	NE	NW	12	41S	24E	0660FNL	1980FEL	
MCELMO CREEK	I18	430371570900S1	Active	14-20-603-4495	SE	NE	12	41S	24E	1840FNL	0555FEL	
MCELMO CREEK	E19	430371634200S1	Shut-in	14-20-603-5449	NE	SE	11	41S	24E	1980FSL	0660FEL	
MCELMO CREEK	G19	430371634600S1	Active	14-20-603-5450	NE	SW	12	41S	24E	1350FSL	1800FWL	
MCELMO CREEK	I20	430371571000S1	Active	14-20-603-5451	SE	SE	12	41S	24E	0990FSL	0500FEL	
MCELMO CREEK	N07	430371636200S1	Active	I-149-IND-8839	NE	SW	29	40S	25E	2083FSL	745FWL	
MCELMO CREEK	P07	430371636600S1	Active	I-149-IND-8839	NW	SE	29	40S	25E	1820FSL	2140FEL	
MCELMO CREEK	O10	430371596700S1	Active	NOG99041325	SE	NW	32	40S	25E	2086FNL	1944FWL	